

Barb O'Brien

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

SEARCH REQUEST FORM

13/6-49

Requestor's

Name: Rebecca Losh

Serial

Number: 11/572127

Date: 9/6/04

Phone: 202 2070

Art Unit: 4114

mej

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

Please search compound of claim 1 into per definitions stated by applicant for all known uses.

Thanks
Rebecca

A Hansen
T Jorgensen K Olsen

azo heterocyclic compounds

STAFF USE ONLY

Date completed: 9-7-04

Searcher: 1203

Terminal time: 16

Elapsed time: 20

CPU time: _____

Total time: _____

Number of Searches: _____

Number of Databases: _____

Search Site

____ STIC

____ CM-1

____ Pre-S

Type of Search

____ N.A. Sequence

____ A.A. Sequence

/ Structure

____ Bibliographic

Vendors

____ IG

329 STN

____ Dialog

____ APS

____ Geninfo

____ SDC

____ DARC/Questel

____ Other

=> fil reg; d stat que 19; fil capl uspatf toxcenter; s 19
FILE 'REGISTRY' ENTERED AT 10:25:11 ON 09 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

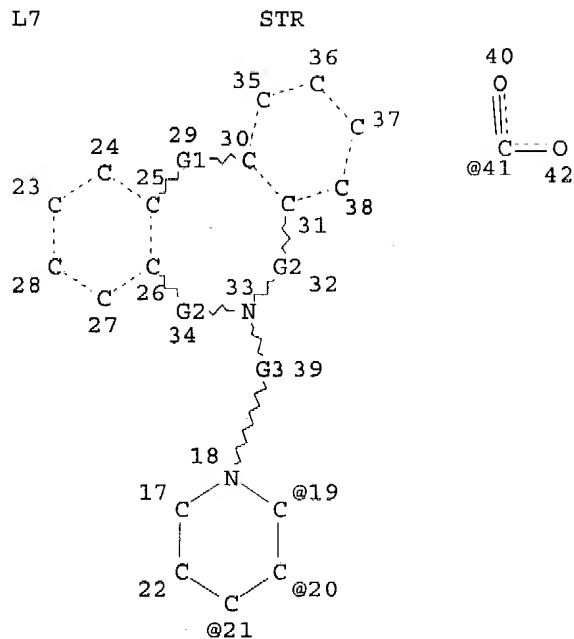
STRUCTURE FILE UPDATES: 8 SEP 2004 HIGHEST RN 741635-85-8
DICTIONARY FILE UPDATES: 8 SEP 2004 HIGHEST RN 741635-85-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>



REP G1=(2-3) CH2
REP G2=(0-1) CH2
REP G3=(1-5) CH2
VPA 41-19/20/21 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

L9 51 SEA FILE=REGISTRY SSS FUL L7

100.0% PROCESSED 241198 ITERATIONS
SEARCH TIME: 00.00.03

51 ANSWERS

FILE 'CAPLUS' ENTERED AT 10:25:11 ON 09 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE 'USPATFULL' ENTERED AT 10:25:11 ON 09 SEP 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'TOXCENTER' ENTERED AT 10:25:11 ON 09 SEP 2004
COPYRIGHT (C) 2004 ACS

L12 31 L9

=> dup rem l12

PROCESSING COMPLETED FOR L12

L13 27 DUP REM L12 (4 DUPLICATES REMOVED)
ANSWERS '1-9' FROM FILE CAPLUS
ANSWERS '10-27' FROM FILE USPATFULL

=> d ibib ed abs hitstr 1-27; fil hom

L13 ANSWER 1 OF 27 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2001:392066 CAPLUS

DOCUMENT NUMBER: 135:5537

TITLE: Synthesis and use of N-substituted
dibenzazaheterocyclic carboxylic acids and derivatives
thereof for treatment of pain, hyperalgesia and
inflammatory conditions

INVENTOR(S): Dorwald, Florenzio Zaragossa; Andersen, Knud Erik;
Hohlweg, Rolf; Madsen, Peter; Jorgensen, Tine Krogh;
Olsen, Uffe Bang; Andersen, Henrik Sune; Treppendahl,
Svend; Zdenek, Polivka; Alexandra, Silhankova; Karel,
Sindelar

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: U.S., 19 pp., Cont.-in-part of U.S. 5,874,428.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

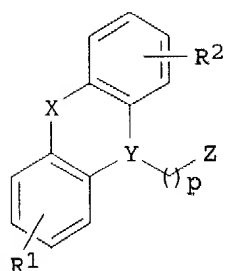
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6239148	B1	20010529	US 1998-55574	19980406
US 5595989	A	19970121	US 1995-367648	19950103
ZA 9500031	A	19960704	ZA 1995-31	19950104
US 5688788	A	19971118	US 1995-444140	19950518
US 5693649	A	19971202	US 1995-544502	19951018
US 5712292	A	19980127	US 1995-544905	19951018
US 5721254	A	19980228	US 1995-544500	19951018
US 5795888	A	19980818	US 1995-544682	19951018
US 5668129	A	19970916	US 1996-626745	19960327
US 5874428	A	19990223	US 1996-623289	19960328

ZA 9602732	A	19961024	ZA 1996-2732	19960404
US 6043239	A	20000328	US 1998-12918	19980123
US 6613791	B1	20030902	US 2000-640605	20000817
PRIORITY APPLN. INFO.:			DK 1994-19	A 19940104
			DK 1994-1290	A 19941109
			US 1995-367648	A3 19950103
			DK 1995-405	A 19950407
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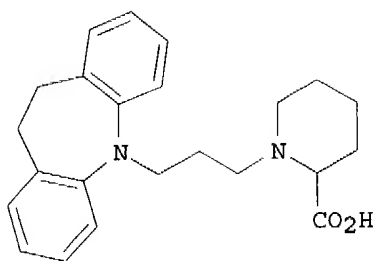
OTHER SOURCE(S): MARPAT 135:5537

ED Entered STN: 31 May 2001

GI



I



II

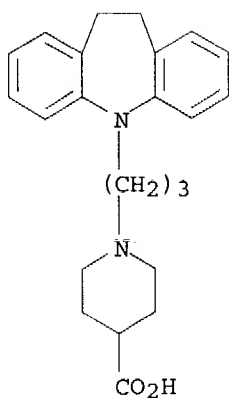
AB Compds. I are synthesized and used as analgesics [wherein; R1, R2 = H, halo, CF3, amino, OH, alkyl or alkoxy; Y = CH or C=CH-; X = (CH2)2, CH2-CO, CO CH2 or CH=CH; p = 1-3; Z = (partially unsatd.) (unsubstituted) piperidin-1-yl]. Twenty-seven synthetic examples were provided. Thus, 10,11-dihydro-5H-dibenz[b,f]azepine was N-acylated by ClCH2CH2COCl and the reduced product aminated by Et 2-piperidinecarboxylate HCl and base to give, after sapon., title compd. II. Compds. I inhibited a formalin-induced pain response in mice (hot plate test); e.g. II inhibited pain by 36% at a dose of 0.1 mg/kg. An exemplary tablet formulation (claimed 0.5 - 1000 mg a.i./unit dose) for compds. I is provided.

IT 183785-31-1P 183785-34-4P 183785-46-8P
183785-49-1P 183785-50-4P 183785-51-5P
183785-52-6P 183785-54-8P 183785-55-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and use of N-substituted dibenzazaheterocyclic carboxylic acids and derivs. thereof for treatment of pain, hyperalgesia and inflammatory conditions)

RN 183785-31-1 CAPLUS

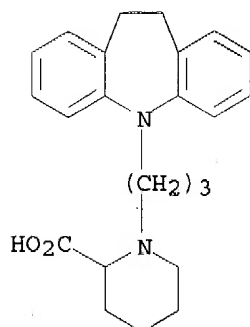
CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 183785-34-4 CAPLUS

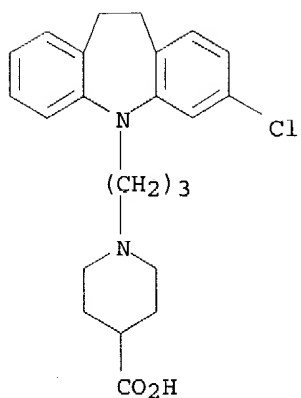
CN 2-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

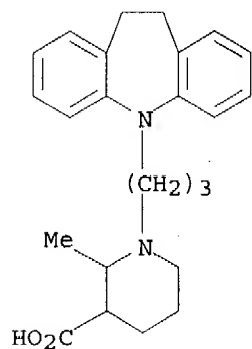
RN 183785-46-8 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



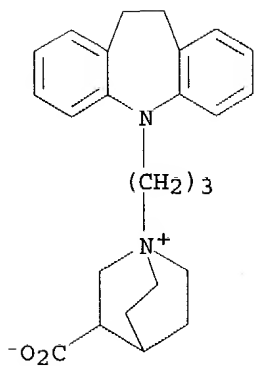
● HCl

RN 183785-49-1 CAPLUS
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



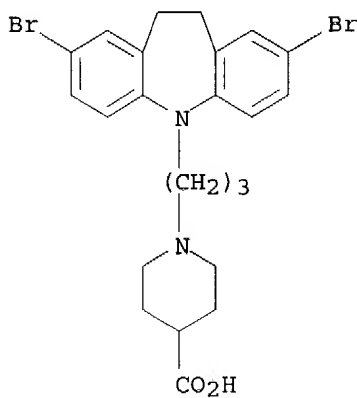
● HCl

RN 183785-50-4 CAPLUS
 CN 1-Azoniabicyclo[2.2.2]octane, 3-carboxy-1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, inner salt (9CI) (CA INDEX NAME)



RN 183785-51-5 CAPLUS

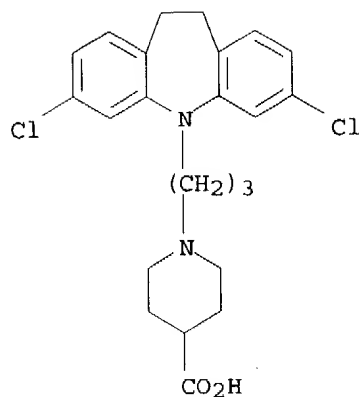
CN 4-Piperidinecarboxylic acid, 1-[3-(2,8-dibromo-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 183785-52-6 CAPLUS

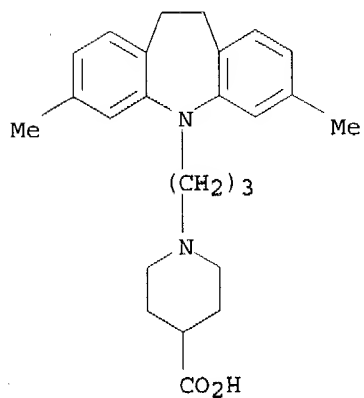
CN 4-Piperidinecarboxylic acid, 1-[3-(3,7-dichloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

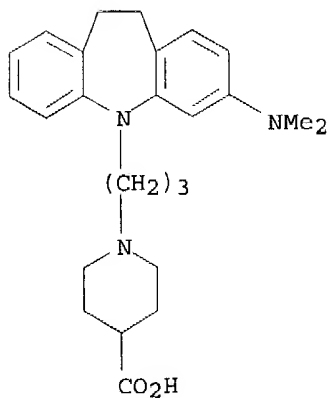
RN 183785-54-8 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3,7-dimethyl-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



RN 183785-55-9 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-[3-(dimethylamino)-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl]propyl]- (9CI) (CA INDEX NAME)



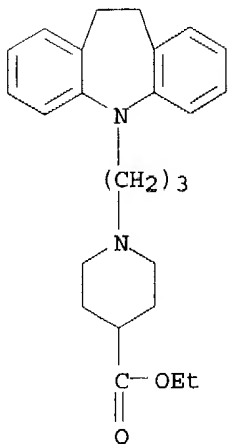
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 183786-08-5P 183786-09-6P 183786-11-0P
 183786-14-3P 183786-17-6P 183786-19-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(synthesis and use of N-substituted dibenzazaheterocyclic carboxylic
 acids and derivs. thereof for treatment of pain, hyperalgesia and
 inflammatory conditions)

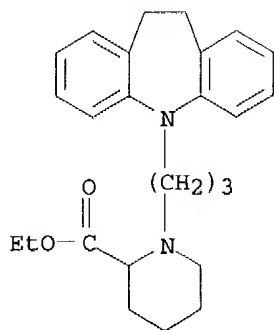
RN 183785-86-6 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-
 yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



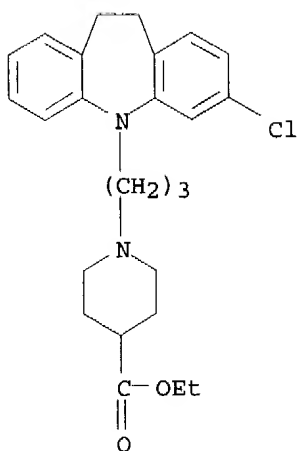
RN 183785-87-7 CAPLUS

CN 2-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-
 yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



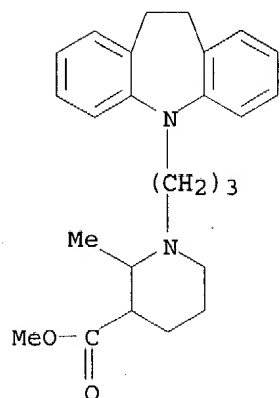
RN 183786-05-2 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-
 dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



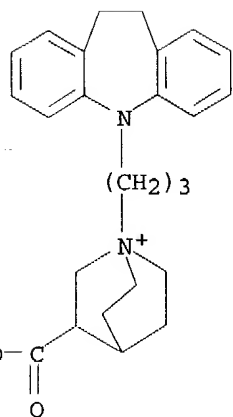
RN 183786-08-5 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-2-methyl-, methyl ester (9CI) (CA INDEX NAME)

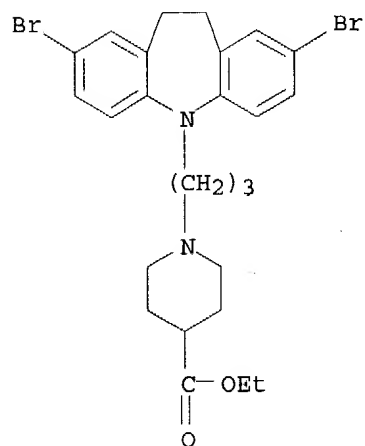


RN 183786-09-6 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-3-(methoxycarbonyl)-, hydroxide (9CI) (CA INDEX NAME)

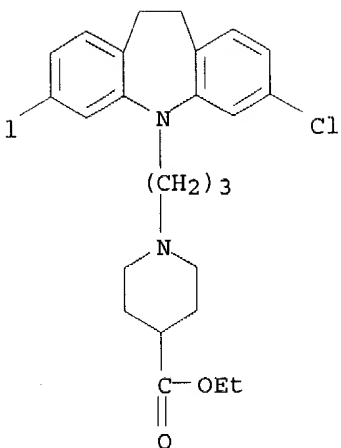
● OH⁻

RN 183786-11-0 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(2,8-dibromo-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

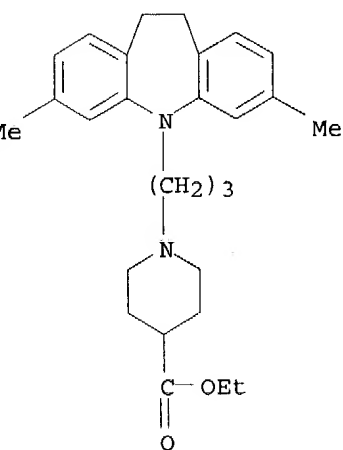


● HCl

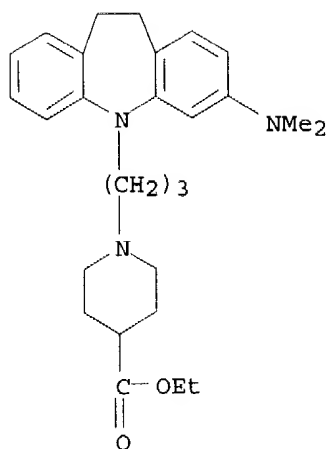
RN 183786-14-3 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(3,7-dichloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 183786-17-6 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3,7-dimethyl-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 183786-19-8 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-[3-(dimethylamino)-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl]propyl]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 27 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2000:383927 CAPLUS

DOCUMENT NUMBER: 133:34425

TITLE: Pharmaceutical compositions containing N-substituted azaheterocyclic compounds for the treatment of indications related to angiogenesis

INVENTOR(S): Hansen, Anker Jon; Jorgensen, Tine Krogh; Olsen, Uffe Bang

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 120 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000032193	A1	20000608	WO 1999-DK671	19991201
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1135129	A1	20010926	EP 1999-957964	19991201
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003524611	T2	20030819	JP 2000-584888	19991201
US 2002045610	A1	20020418	US 2001-872127	20010601
PRIORITY APPLN. INFO.:			DK 1998-1586	A 19981202
			US 1998-111445P	P 19981208
			WO 1999-DK671	W 19991201

OTHER SOURCE(S): MARPAT 133:34425

ED Entered STN: 09 Jun 2000

AB The present invention relates to the use of N-substituted azaheterocyclic compds. or salts thereof, for the treatment of conditions related to

angiogenesis. N-substituted azaheterocyclic compds. decreased the vessel area of neovascularization of mouse cornea by 30-50%. A tablet contained a N-substituted azaheterocyclic compd. 100, silicone dioxide 1.5, microcryst. cellulose 70, modified cellulose gum 7.5, in the core, and hydroxypropyl Me cellulose 9, and Mywacett 9-40T 0.9 mg in the coating.

IT 170150-05-7 170150-06-8 170150-07-9
170150-08-0 170150-11-5 170150-18-2
170150-20-6 183614-78-0 183614-86-0
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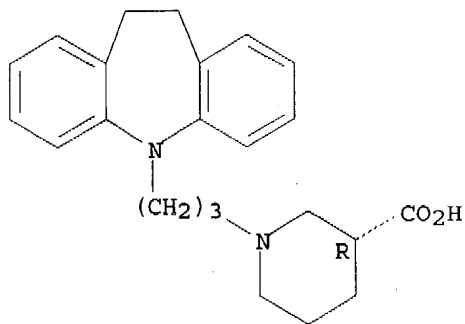
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmaceutical compns. contg. N-substituted azaheterocyclic compds. for treatment of indications related to angiogenesis)

RN 170150-05-7 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

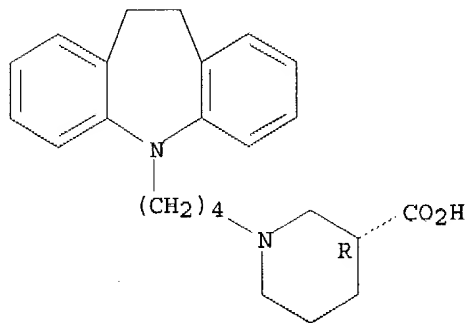
Absolute stereochemistry.



RN 170150-06-8 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, (3R)- (9CI) (CA INDEX NAME)

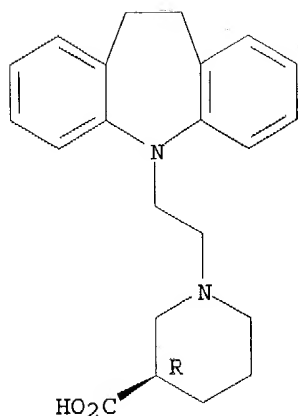
Absolute stereochemistry.



RN 170150-07-9 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

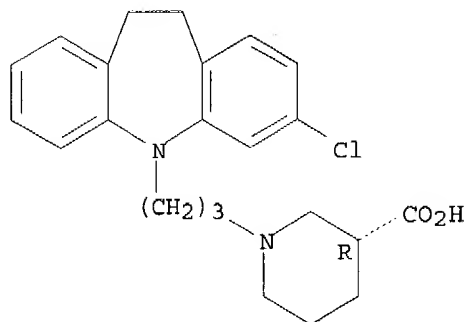
Absolute stereochemistry.



RN 170150-08-0 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

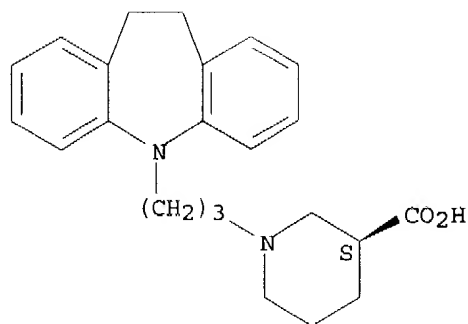
Absolute stereochemistry.



RN 170150-11-5 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)- (9CI) (CA INDEX NAME)

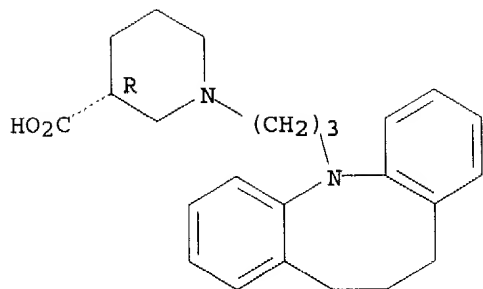
Absolute stereochemistry.



RN 170150-18-2 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

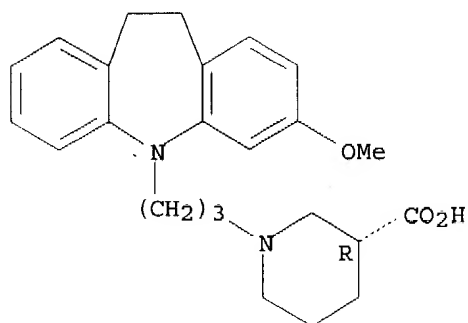
Absolute stereochemistry.



RN 170150-20-6 CAPLUS

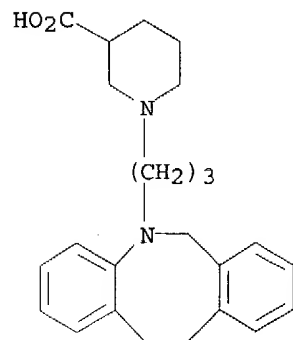
CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 183614-78-0 CAPLUS

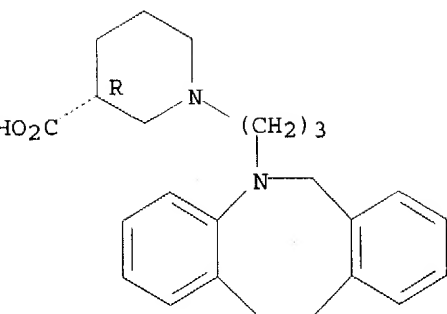
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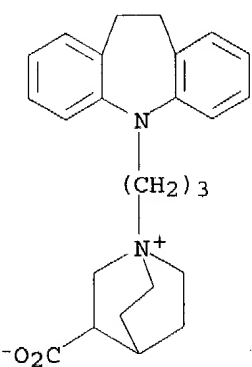
RN 183614-86-0 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

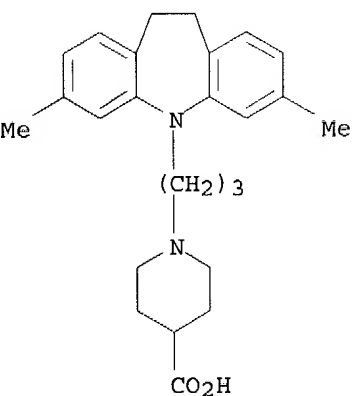
Absolute stereochemistry.



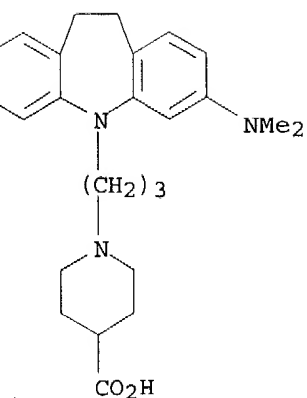
RN 183785-50-4 CAPLUS
 CN 1-Azoniabicyclo[2.2.2]octane, 3-carboxy-1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, inner salt (9CI) (CA INDEX NAME)



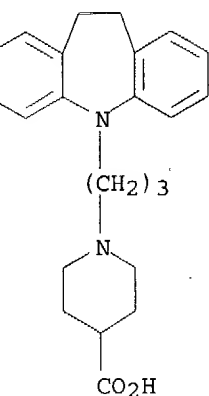
RN 183785-54-8 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3,7-dimethyl-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



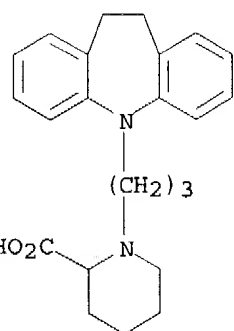
RN 183785-55-9 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-[3-(dimethylamino)-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl]propyl]- (9CI) (CA INDEX NAME)



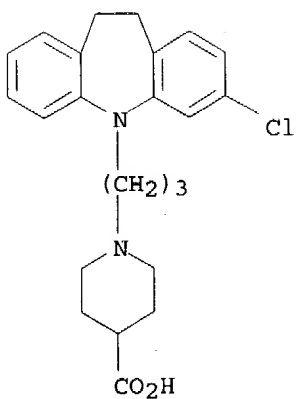
N 183785-59-3 CAPLUS
 N 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



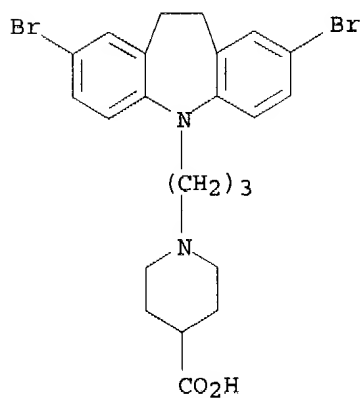
RN 183785-60-6 CAPLUS
 CN 2-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



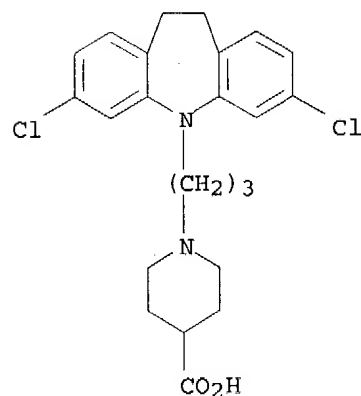
RN 183785-78-6 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



RN 183785-81-1 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(2,8-dibromo-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl] - (9CI) (CA INDEX NAME)



RN 183785-82-2 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(3,7-dichloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl] - (9CI) (CA INDEX NAME)



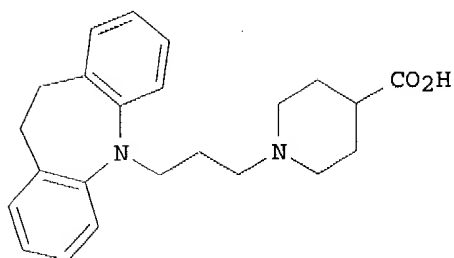
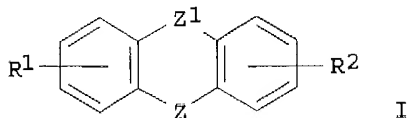
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 27 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3

ACCESSION NUMBER: 2000:606859 CAPLUS
 DOCUMENT NUMBER: 133:193091
 TITLE: Preparation of 1-(dibenzazepinoalkyl)azacycloalkanecarboxylic acids and analogs as CGRP inhibitors
 INVENTOR(S): Dorwald, Florenzio Zaragossa; Andersen, Knud Erik; Hohlweg, Rolf; Madsen, Peter; Joslashedrgensen, Tine Krogh; Olsen, Uffe Bang; Andersen, Henrik Sune; Treppendahl, Svend; Zdenek, Polivka; Karel, Sindelar; Alexandra, Silhankova
 PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.
 SOURCE: U.S., 21 pp., Cont.-in-part of U.S. 5,874,428.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6110913	A	20000829	US 1998-55633	19980406
US 5595989	A	19970121	US 1995-367648	19950103
ZA 9500031	A	19960704	ZA 1995-31	19950104
US 5688788	A	19971118	US 1995-444140	19950518
US 5693649	A	19971202	US 1995-544502	19951018
US 5712292	A	19980127	US 1995-544905	19951018
US 5721254	A	19980228	US 1995-544500	19951018
US 5795888	A	19980818	US 1995-544682	19951018
US 5668129	A	19970916	US 1996-626745	19960327
US 5874428	A	19990223	US 1996-623289	19960328
ZA 9602732	A	19961024	ZA 1996-2732	19960404
US 6043239	A	20000328	US 1998-12918	19980123
US 6166009	A	20001226	US 1999-390020	19990903
PRIORITY APPLN. INFO.:			DK 1994-19	A 19940104
			DK 1994-1290	A 19941109
			US 1995-367648	A3 19950103
			DK 1995-405	A 19950407
			DK 1995-1005	A 19950911
			US 1995-544682	A2 19951018
			US 1996-623289	A2 19960328
			US 1998-55633	A3 19980406

OTHER SOURCE(S): MARPAT 133:193091
 ED Entered STN: 31 Aug 2000
 GI



AB Title compds. [I; R₁, R₂ = H, halo, alkyl, alkoxy, etc.; Z = N[(CH₂)_nR]CH₂, CH[(CH₂)_nR]CH₂, C:CH; R = Z₂R₃; R₃ = (CH₂)_mOH or (CH₂)_pCOR₄; R₄ = OH, NH₂, NHOH, alkoxy; Z₁ = O, S, CH₂CH₂, CH:CHCH₂, CH₂CO, etc.; Z₂ = pyrrolidine-1,2-diyl, piperidine-1,3- or -1,4-diyl, tetrahydroquinoline-2,3-diyl, etc.; m = 0-6; n = 1-3; p = 0 or 1] were prepd. Thus, 10,11-dihydro-5H-dibenz[b,f]azepine was N-acylated by ClCH₂CH₂COCl and the reduced product aminated by Et 4-piperidinecarboxylate to give, after sapon., title compd. II. Data for biol. activity of I were given.

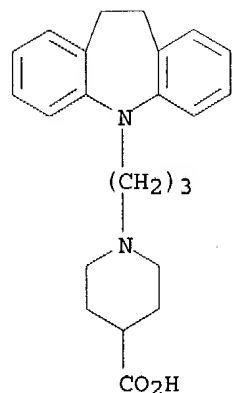
IT 183785-31-1P 183785-34-4P 183785-46-8P
183785-49-1P 183785-50-4P 183785-51-5P
183785-52-6P 183785-54-8P 183785-55-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 1-(dibenzazepinoalkyl)azacycloalkanecarboxylic acids and analogs as CGRP inhibitors)

RN 183785-31-1 CAPLUS

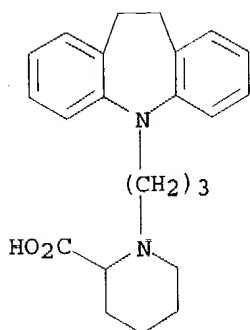
CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

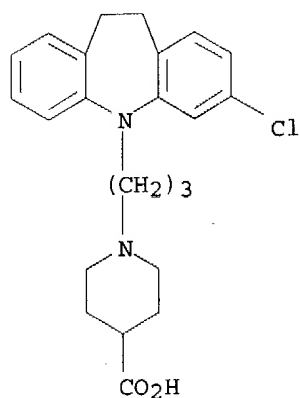
RN 183785-34-4 CAPLUS

CN 2-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



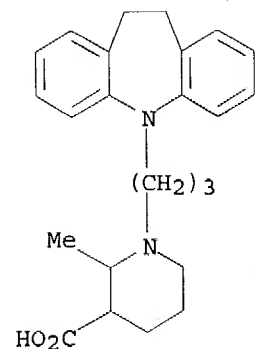
● HCl

RN 183785-46-8 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



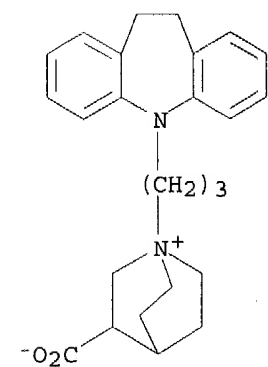
● HCl

RN 183785-49-1 CAPLUS
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

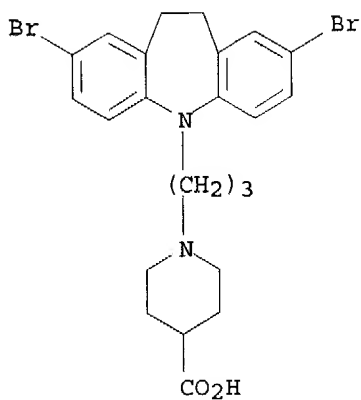


● HCl

RN 183785-50-4 CAPLUS
 CN 1-Azoniabicyclo[2.2.2]octane, 3-carboxy-1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, inner salt (9CI) (CA INDEX NAME)

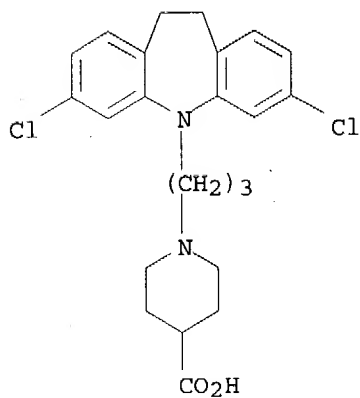


RN 183785-51-5 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(2,8-dibromo-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



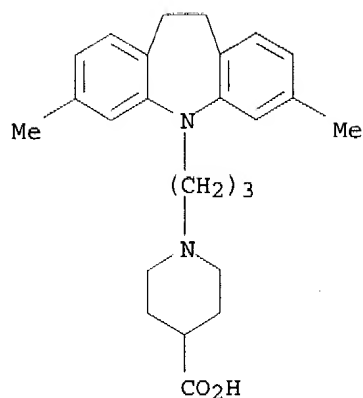
● HCl

RN 183785-52-6 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(3,7-dichloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



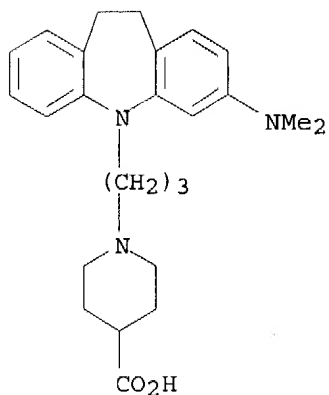
● HCl

RN 183785-54-8 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3,7-dimethyl-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



RN 183785-55-9 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-[3-(dimethylamino)-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl]propyl]- (9CI) (CA INDEX NAME)



IT 183785-86-6P 183785-87-7P 183786-05-2P

183786-08-5P 183786-09-6P 183786-11-0P

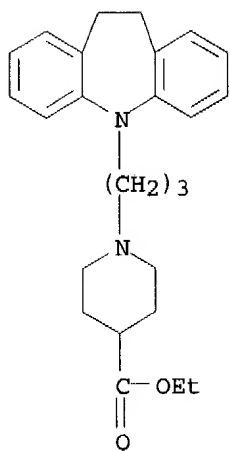
183786-14-3P 183786-17-6P 183786-19-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of 1-(dibenzazepinoalkyl)azacycloalkanecarboxylic acids and analogs as CGRP inhibitors)

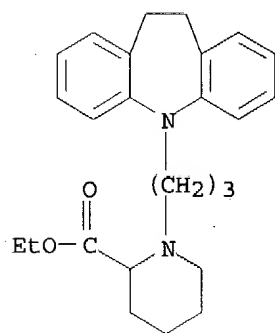
RN 183785-86-6 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



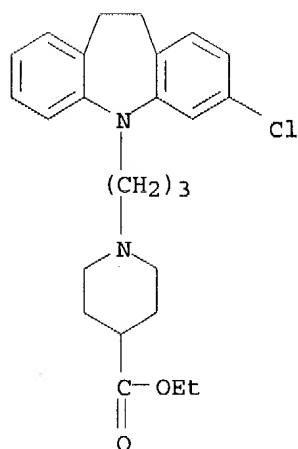
RN 183785-87-7 CAPLUS

CN 2-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



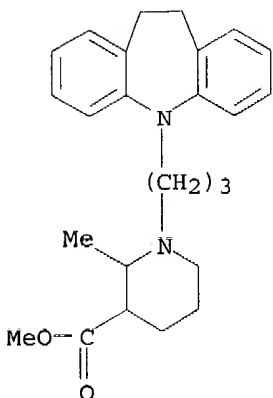
RN 183786-05-2 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



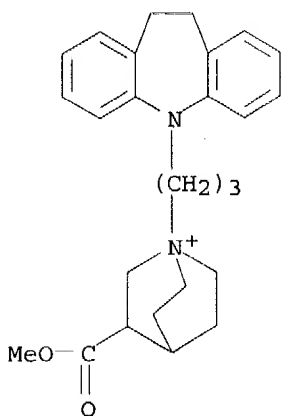
RN 183786-08-5 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-2-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 183786-09-6 CAPLUS

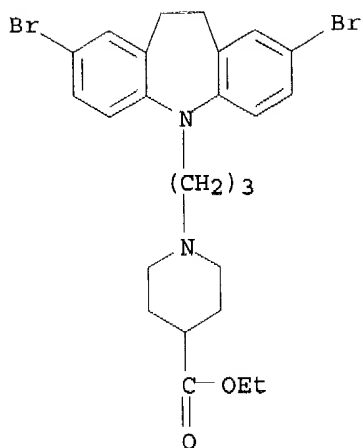
CN 1-Azoniabicyclo[2.2.2]octane, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-3-(methoxycarbonyl)-, hydroxide (9CI) (CA INDEX NAME)



● OH⁻

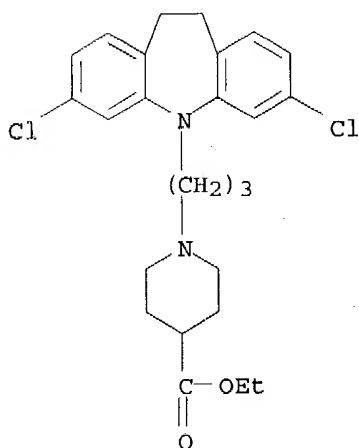
RN 183786-11-0 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(2,8-dibromo-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

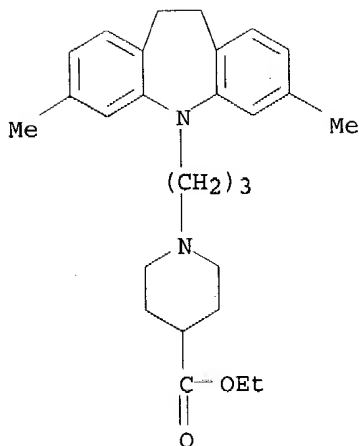


● HCl

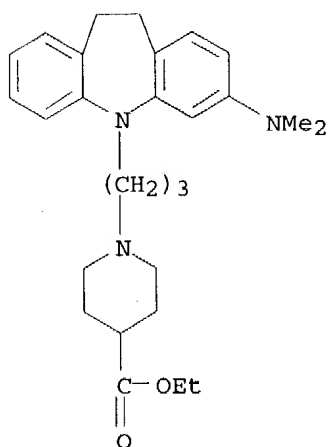
RN 183786-14-3 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(3,7-dichloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 183786-17-6 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3,7-dimethyl-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 183786-19-8 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-[3-(dimethylamino)-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl]propyl]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4
 ACCESSION NUMBER: 2000:378163 CAPLUS
 DOCUMENT NUMBER: 133:17390
 TITLE: Preparation of N-[carboxypiperidino]alkyl (dibenz[b,f]azepines and analogs for treatment of neurogenic inflammation and insulin resistance
 INVENTOR(S): Dorwald, Florenzio Zaragossa; Andersen, Knud Erik; Hohlweg, Rolf; Madsen, Peter; Joslashedrgensen, Tine Krogh; Olsen, Uffe Bang; Andersen, Henrik Sune; Treppendahl, Svend; Zdenek, Polivka; Alexandra, Silhankova; Karel, Sindelar
 PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.
 SOURCE: U.S., 20 pp., Cont.-in-part of U.S. Ser. No. 623,289. CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6071901	A	20000606	US 1998-53339	19980401
US 5595989	A	19970121	US 1995-367648	19950103
ZA 9500031	A	19960704	ZA 1995-31	19950104
US 5688788	A	19971118	US 1995-444140	19950518
US 5693649	A	19971202	US 1995-544502	19951018
US 5712292	A	19980127	US 1995-544905	19951018
US 5721254	A	19980228	US 1995-544500	19951018
US 5795888	A	19980818	US 1995-544682	19951018
US 5668129	A	19970916	US 1996-626745	19960327
US 5874428	A	19990223	US 1996-623289	19960328
ZA 9602732	A	19961024	ZA 1996-2732	19960404
US 6043239	A	20000328	US 1998-12918	19980123

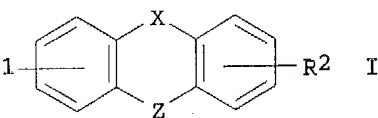
PRIORITY APPLN. INFO.:

DK 1994-19	A	19940104
DK 1994-1290	A	19941109
US 1995-367648	A3	19950103
DK 1995-405	A	19950407
DK 1995-1005	A	19950911
US 1995-544682	A2	19951018
US 1996-623289	A2	19960328

OTHER SOURCE(S): MARPAT 133:17390

D Entered STN: 07 Jun 2000

I



B Title compds. [I; R1,R2 = H, halo, alkyl, alkoxy, etc.; X = O, S, CH₂CH₂, CH₂CO, NHCO, etc.; Z = N(CH₂)_rZ1R3, CH(CH₂)_rZ1R3, C:CH(1h)_rZ1R3, etc.; R3 = (CH₂)_mOH or (CH₂)_pCOR4; R4 = OH, NH₂, NHOH, alkoxy; Z1 = pyrrolidine-1,2-diyl, piperidine-1,n-diyl, morpholine-4,2-diyl, piperazine-1,4-diylmethyl, etc.; m = 0-6; n = 2-4; p = 0 or 1; r = 1-3] were prepd. Thus, I (R1 = R2 = H, X = CH₂CH₂, Z = NR) (II; R = H) was N-acylated by ClCH₂CH₂COCl and the reduced product aminated by Et piperidine-4-carboxylate to give, after sapon., II [R = 3-(4-carboxypiperidino)propyl]. Data for biol. activity of I were given.

T 183785-31-1P 183785-34-4P 183785-46-8P

183785-49-1P 183785-50-4P 183785-51-5P

183785-52-6P 183785-54-8P 183785-55-9P

183785-59-3P 183785-60-6P 183785-78-6P

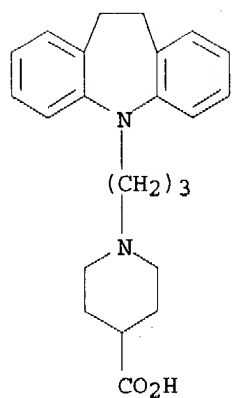
183785-80-0P 183785-81-1P 183785-82-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of N-[carboxypiperidino]alkyl) (dibenz[b,f]azepines and analogs for treatment of neurogenic inflammation and neurogenic inflammation)

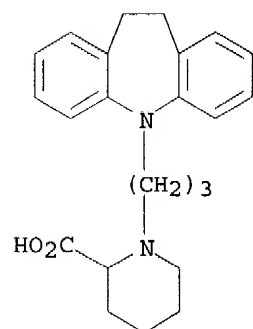
N 183785-31-1 CAPLUS

N 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



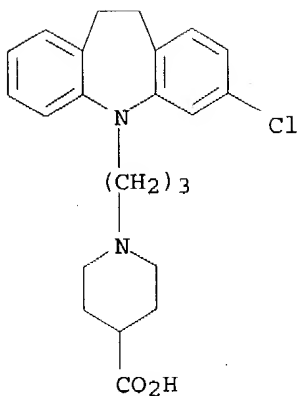
● HCl

RN 183785-34-4 CAPLUS
 CN 2-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



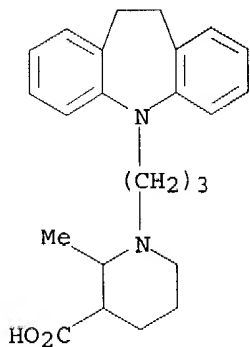
● HCl

RN 183785-46-8 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



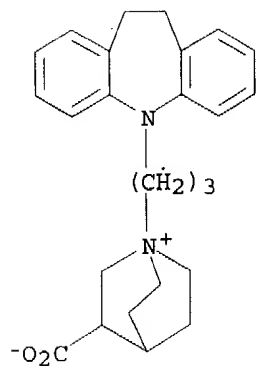
● HCl

RN 183785-49-1 CAPLUS
CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

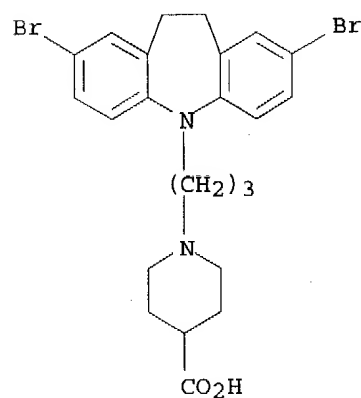


● HCl

RN 183785-50-4 CAPLUS
CN 1-Azoniabicyclo[2.2.2]octane, 3-carboxy-1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, inner salt (9CI) (CA INDEX NAME)

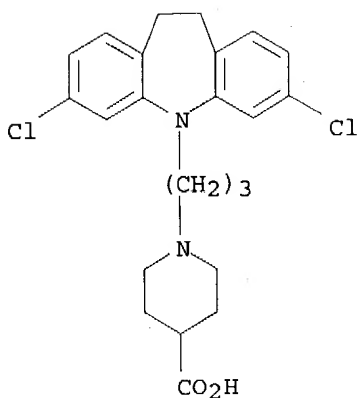


RN 183785-51-5 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(2,8-dibromo-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

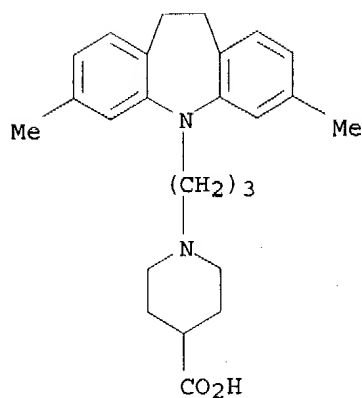
RN 183785-52-6 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(3,7-dichloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

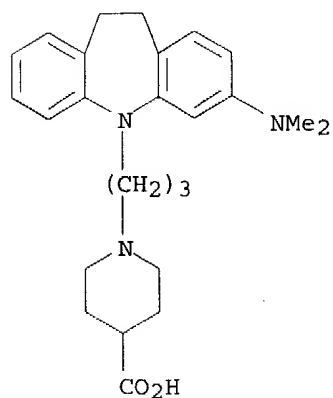
RN 183785-54-8 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3,7-dimethyl-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)

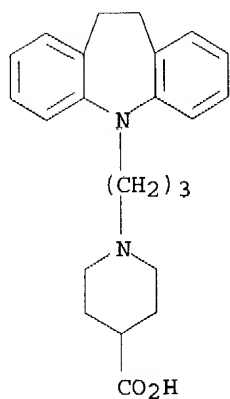


RN 183785-55-9 CAPLUS

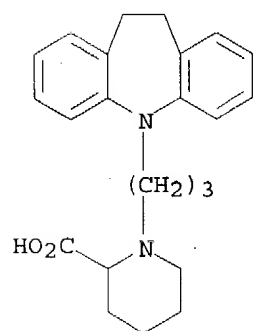
CN 4-Piperidinecarboxylic acid, 1-[3-[3-(dimethylamino)-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl]propyl]- (9CI) (CA INDEX NAME)



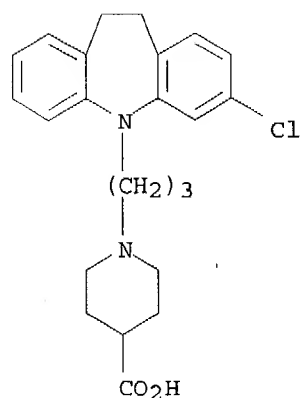
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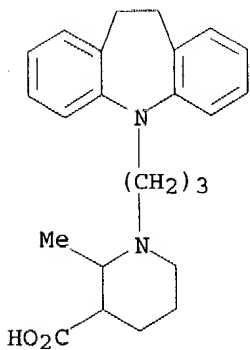
RN 183785-60-6 CAPLUS
CN 2-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



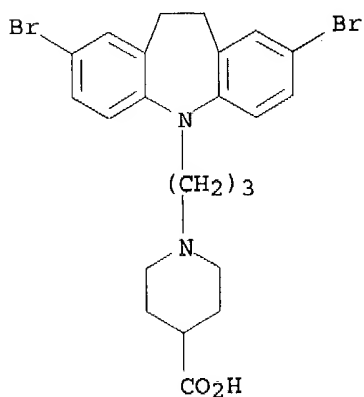
RN 183785-78-6 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



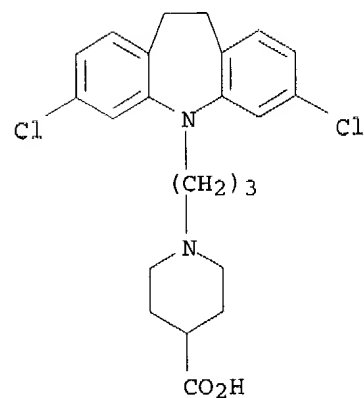
RN 183785-80-0 CAPLUS
CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-2-methyl- (9CI) (CA INDEX NAME)



RN 183785-81-1 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-[3-(2,8-dibromo-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



RN 183785-82-2 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-[3-(3,7-dichloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



IT 183785-86-6P 183785-87-7P 183786-05-2P

183786-08-5P 183786-09-6P 183786-11-0P

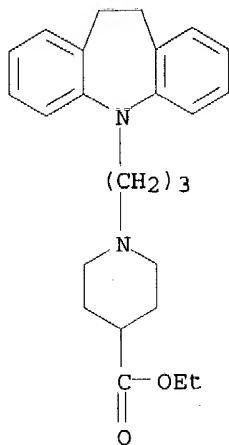
183786-14-3P 183786-17-6P 183786-19-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of N-[carboxypiperidino)alkyl] (dibenz[b,f]azepines and analogs for treatment of neurogenic inflammation and neurogenic inflammation)

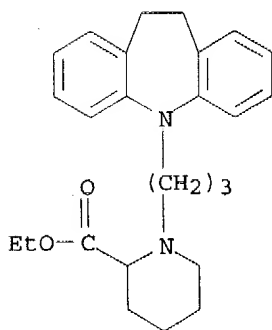
RN 183785-86-6 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



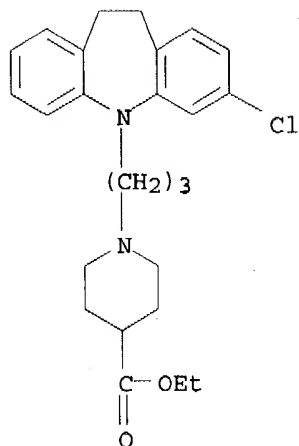
RN 183785-87-7 CAPLUS

CN 2-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



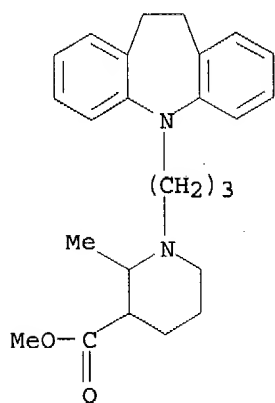
RN 183786-05-2 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



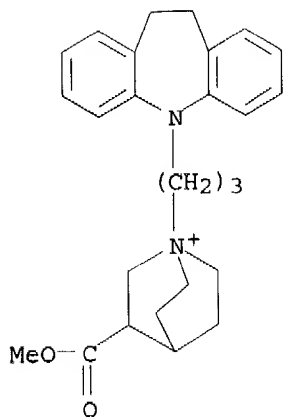
RN 183786-08-5 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-2-methyl-, methyl ester (9CI) (CA INDEX NAME)

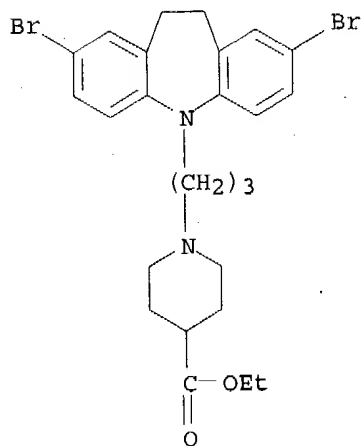


RN 183786-09-6 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-3-(methoxycarbonyl)-, hydroxide (9CI) (CA INDEX NAME)

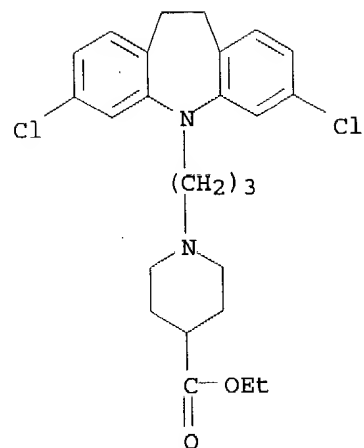
● OH⁻

RN 183786-11-0 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(2,8-dibromo-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

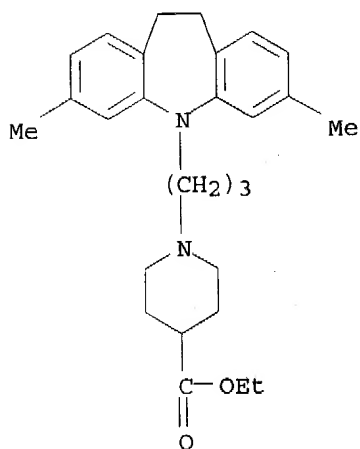


● HCl

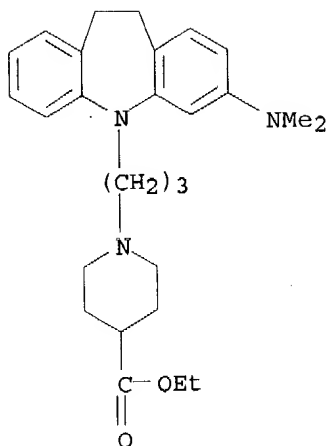
RN 183786-14-3 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(3,7-dichloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 183786-17-6 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3,7-dimethyl-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 183786-19-8 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-[3-(dimethylamino)-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl]propyl]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:501427 CAPLUS

DOCUMENT NUMBER: 127:121639

TITLE: Piperidinecarboxylic acid derivatives for reducing blood glucose levels

INVENTOR(S): Olsen, Uffe Bang

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

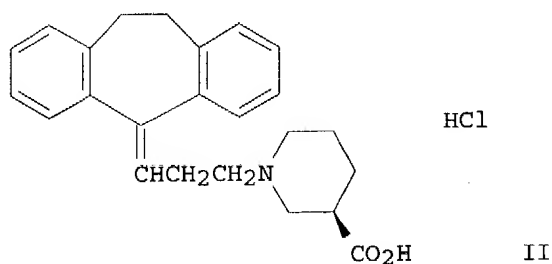
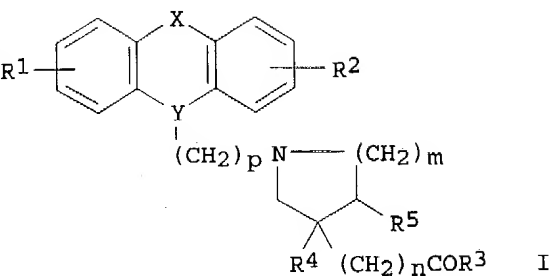
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2239487	AA	19970626	CA 1996-2239487	19961212
AU 9711384	A1	19970714	AU 1997-11384	19961212
AU 704825	B2	19990506		
EP 869777	A1	19981014	EP 1996-942264	19961212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1204258	A	19990106	CN 1996-199019	19961212
BR 9612005	A	19990209	BR 1996-12005	19961212
JP 3048067	B2	20000605	JP 1997-522429	19961212
ZA 9610543	A	19980108	ZA 1996-10543	19961213
US 5741791	A	19980421	US 1996-766839	19961213
NO 9802732	A	19980814	NO 1998-2732	19980612
PRIORITY APPLN. INFO.:			DK 1995-1426	A 19951215
			WO 1996-DK524	W 19961212

OTHER SOURCE(S): MARPAT 127:121639

ED Entered STN: 08 Aug 1997
GI



AB Title compds. I [R1, R2 = H, halogen, CF3, alkyl, alkoxy; R3 = OH, alkoxy; R4, R5 = H, R4R5 = bond; X = O, S, (un)substituted CH2, CH2CH2, CH:CHCH2, CH2CH:CH, (CH2)3, CH:CH, (un)substituted NHCO, OCH2, CO, CS; Y = NCH2, CHCH2, C:CH; m = n = 1; m = 2, n = 0; p = 1-3] were prepd. for use in reducing blood glucose and/or inhibiting the secretion, circulation or effect of insulin antagonizing peptides like CGRP or amylin. Thus, acid II was prepd. from 10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-one in 4 steps. II at 100 mg/L in drinking water lowered CGRP levels in mice from 260 to 152 pg/mL.

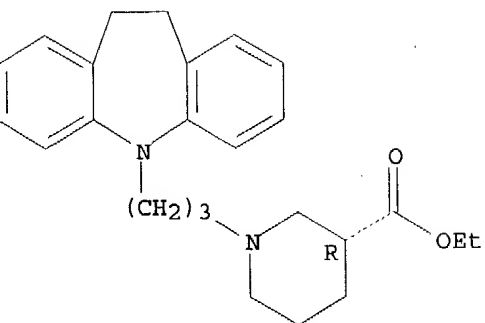
IT 170150-26-2P 170150-27-3P 170150-28-4P
170150-31-9P 170150-34-2P 170150-42-2P
170150-47-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of piperidinecarboxylic acid derivs. for reducing blood glucose levels)

RN 170150-26-2 CAPLUS

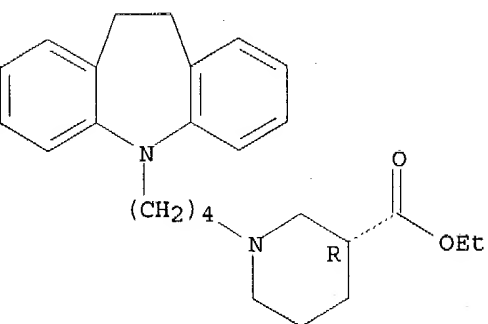
CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



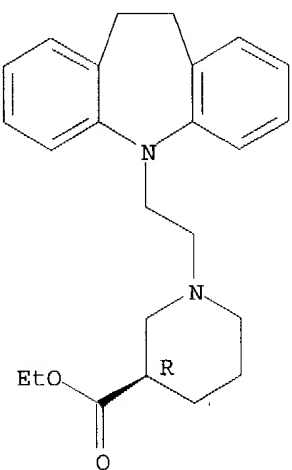
RN 170150-27-3 CAPLUS
 CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 170150-28-4 CAPLUS
 CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

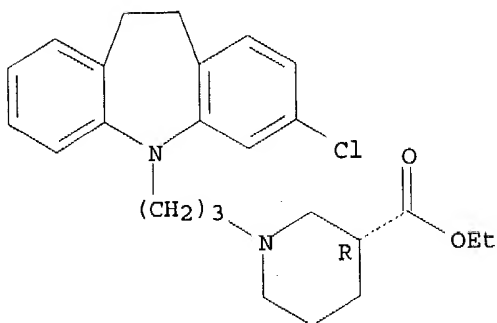
Absolute stereochemistry.



RN 170150-31-9 CAPLUS
 CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-

dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

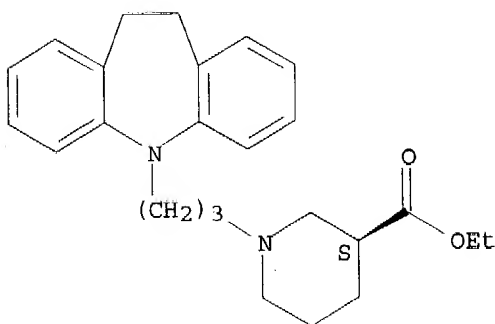
Absolute stereochemistry.



RN 170150-34-2 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

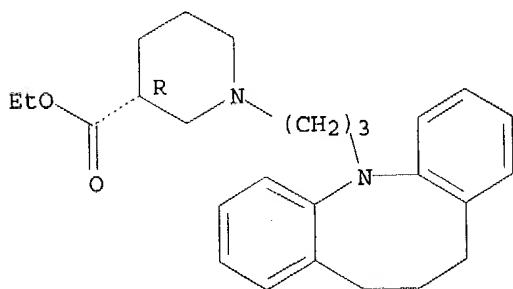
Absolute stereochemistry.



RN 170150-42-2 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

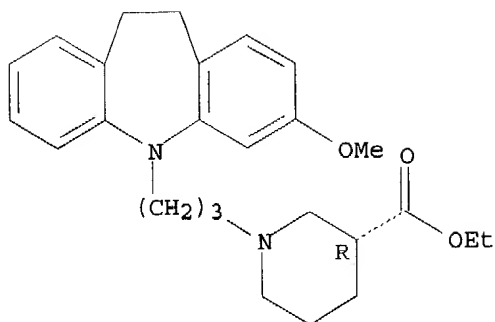
Absolute stereochemistry.



RN 170150-47-7 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



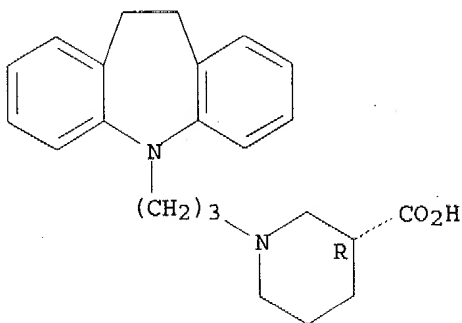
IT 170149-82-3P 170149-83-4P 170149-84-5P
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 170149-96-9P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of piperidinecarboxylic acid derivs. for reducing blood glucose levels)

RN 170149-82-3 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

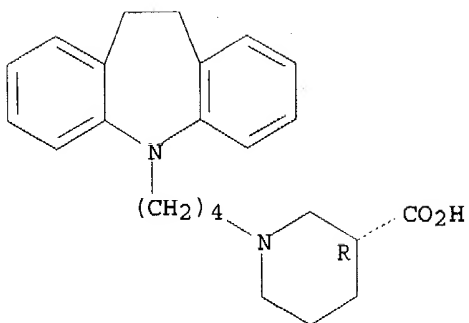


● HCl

RN 170149-83-4 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

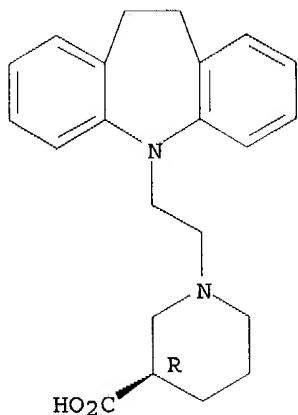


● HCl

RN 170149-84-5 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

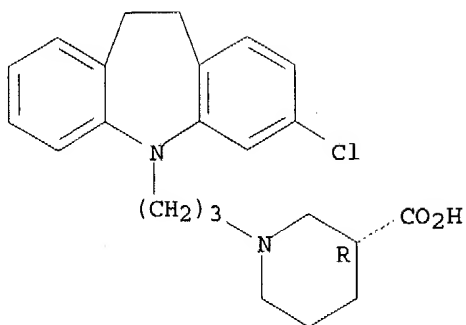


● HCl

RN 170149-85-6 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

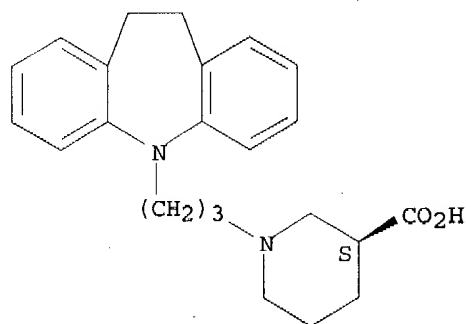


● HCl

RN 170149-90-3 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

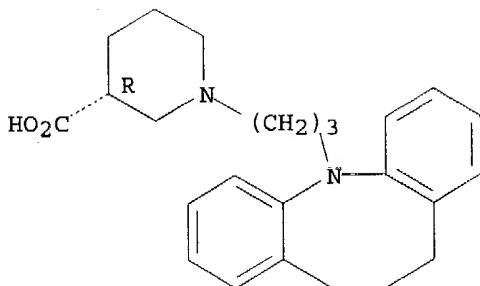


● HCl

RN 170149-94-7 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

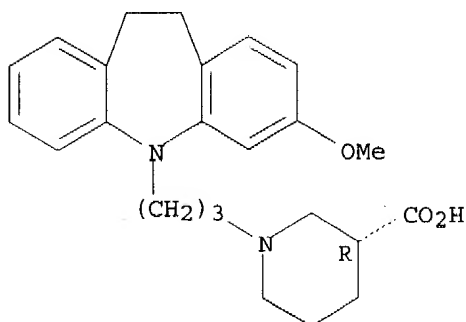


● HCl

RN 170149-96-9 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

L13 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:721735 CAPLUS

DOCUMENT NUMBER: 126:8010

TITLE: Preparation of N-(3-dibenzazepinopropyl)piperidinecarboxylates and analogs as drugs

INVENTOR(S): Doerwald, Florenzio Zaragossa; Andersen, Knud Erik; Madsen, Peter; Joergensen, Tine Krogh; Hohlweg, Rolf; Andersen, Henrik Sune; Treppendahl, Svend; Olsen, Uffe Bang; Zdenek, Polivka; et al.

PATENT ASSIGNEE(S): Novo Nórdisk A/s, Den.

SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

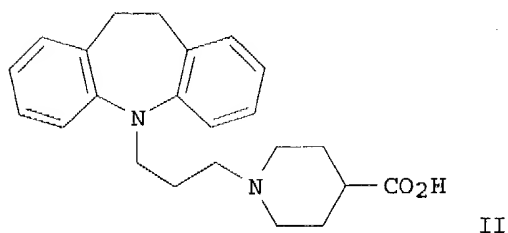
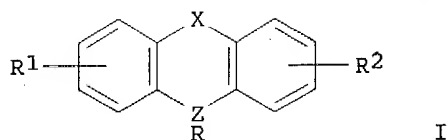
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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Searched by Barb O'Bryen, STIC 2-2518

WO 9631498	A1	19961010	WO 1996-DK139	19960401
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML				
CA 2217197	AA	19961010	CA 1996-2217197	19960401
AU 9651003	A1	19961023	AU 1996-51003	19960401
AU 708010	B2	19990729		
EP 820451	A1	19980128	EP 1996-907327	19960401
EP 820451	B1	20030115		
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CN 1183781	A	19980603	CN 1996-193779	19960401
JP 11503127	T2	19990323	JP 1996-529868	19960401
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AT 231144	E	20030215	AT 1996-907327	19960401
ES 2191090	T3	20030901	ES 1996-907327	19960401
PL 187171	B1	20040531	PL 1996-322722	19960401
IL 117810	A1	20010913	IL 1996-117810	19960403
ZA 9602732	A	19961024	ZA 1996-2732	19960404
TW 419463	B	20010121	TW 1996-85104810	19960514
NO 9704605	A	19971204	NO 1997-4605	19971006
PRIORITY APPLN. INFO.:			DK 1995-405	A 19950407
			DK 1995-1005	A 19950911
			WO 1996-DK139	W 19960401

OTHER SOURCE(S): MARPAT 126:8010
 ED Entered STN: 09 Dec 1996
 GI



AB Title compds. [I; R = N-attached carboxyheterocyclyl, etc.; R1,R2 = H, halo, alkyl, alkoxy, etc.; X = O, CH2CH2, CH2CO, etc.; Z = N(CH2)2-4, CH(CH2)2-4, CH:CH(CH2)1-3] were prepd. for treatment of neurogenic inflammation and non-insulin-dependant diabetes (no data). Thus, 10,11-dihydro-5H-dibenz[b,f]azepine was acylated by Cl(CH2)3COCl and the reduced product aminated by Et 4-piperidinecarboxylate to give, after sapon., title compd. II.HCl.

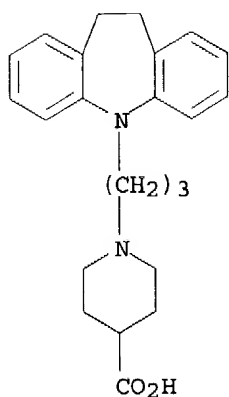
IT 183785-31-1P 183785-34-4P 183785-46-8P
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 183785-52-6P 183785-54-8P 183785-55-9P

183785-59-3P 183785-60-6P 183785-78-6P
183785-80-0P 183785-81-1P 183785-82-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-(3-dibenzazepinopropyl)piperidinecarboxylates and analogs as drugs)

RN 183785-31-1 CAPLUS

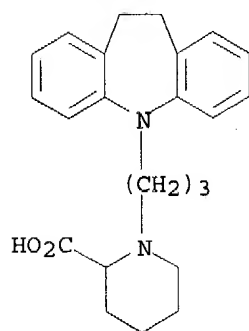
CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 183785-34-4 CAPLUS

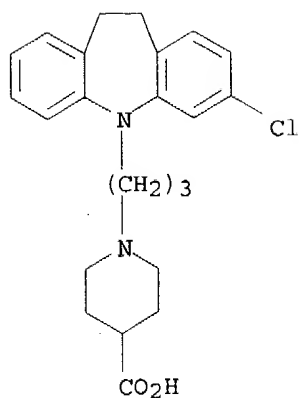
CN 2-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 183785-46-8 CAPLUS

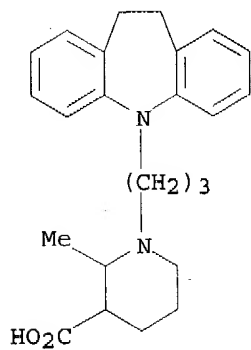
CN 4-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 183785-49-1 CAPLUS

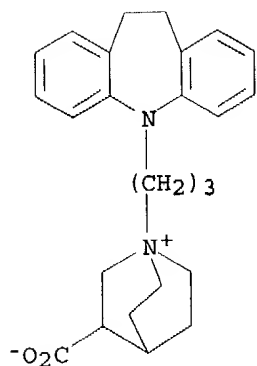
CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



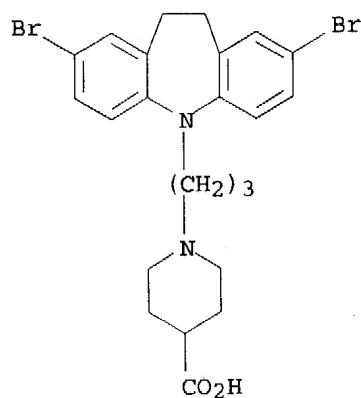
● HCl

RN 183785-50-4 CAPLUS

CN 1-Azoniabicyclo[2.2.2]octane, 3-carboxy-1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, inner salt (9CI) (CA INDEX NAME)

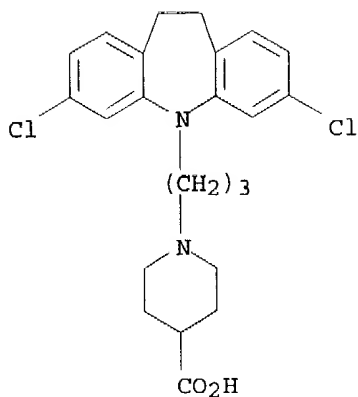


RN 183785-51-5 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(2,8-dibromo-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



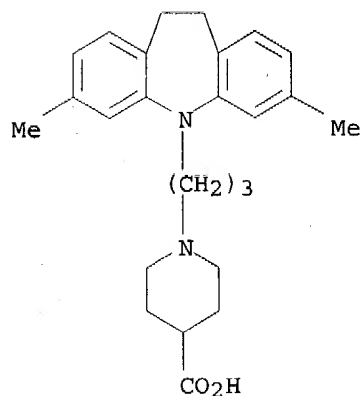
● HCl

RN 183785-52-6 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(3,7-dichloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)

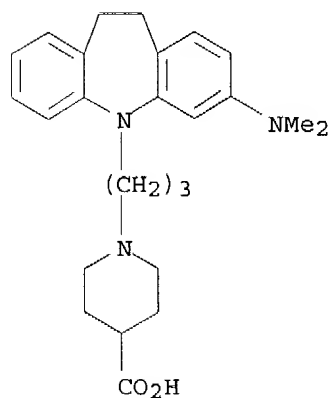


● HCl

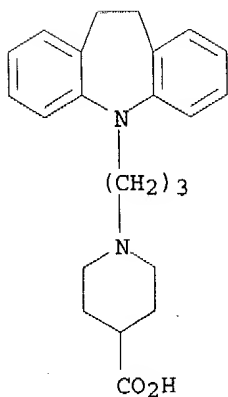
RN 183785-54-8 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3,7-dimethyl-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



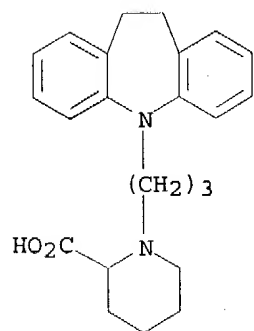
RN 183785-55-9 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-[3-(dimethylamino)-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl]propyl]- (9CI) (CA INDEX NAME)



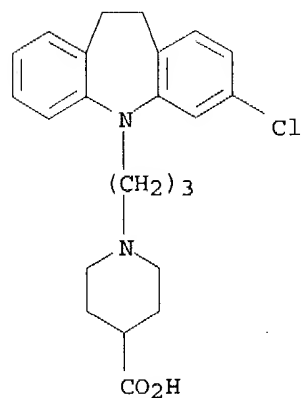
RN 183785-59-3 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



RN 183785-60-6 CAPLUS
CN 2-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)

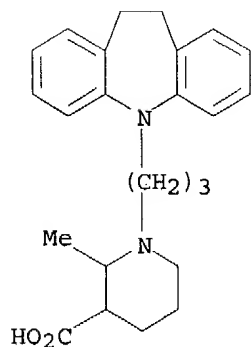


RN 183785-78-6 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



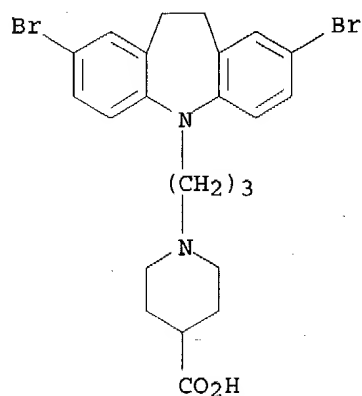
RN 183785-80-0 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-2-methyl- (9CI) (CA INDEX NAME)



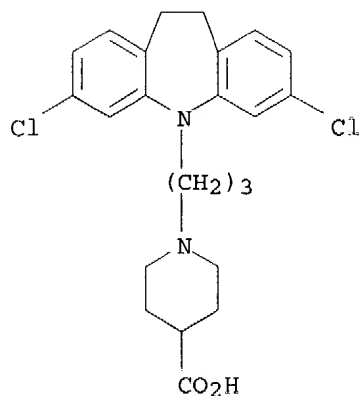
RN 183785-81-1 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(2,8-dibromo-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



RN 183785-82-2 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(3,7-dichloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



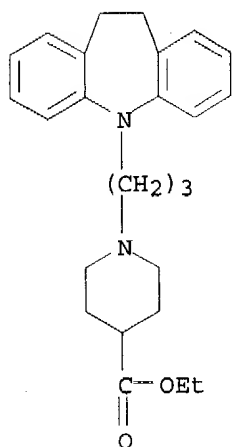
IT 183785-86-6P 183785-87-7P 183786-05-2P

183786-08-5P 183786-09-6P 183786-11-0P
183786-14-3P 183786-17-6P 183786-19-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. of N-(3-dibenzazepinopropyl)piperidinecarboxylates and analogs
as drugs)

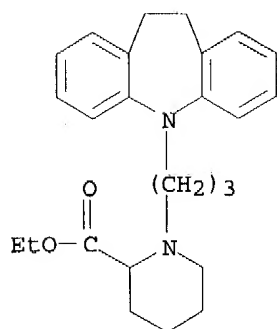
RN 183785-86-6 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



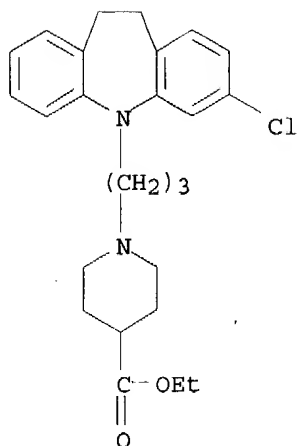
RN 183785-87-7 CAPLUS

CN 2-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



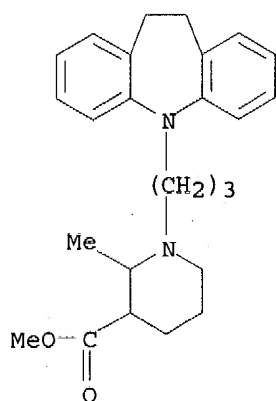
RN 183786-05-2 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



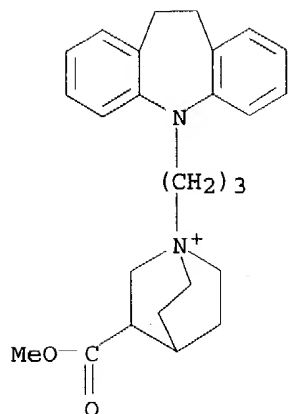
RN 183786-08-5 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-2-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 183786-09-6 CAPLUS

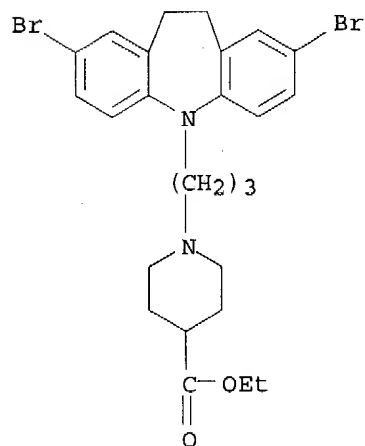
CN 1-Azoniabicyclo[2.2.2]octane, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-3-(methoxycarbonyl)-, hydroxide (9CI) (CA INDEX NAME)



● OH⁻

RN 183786-11-0 CAPLUS

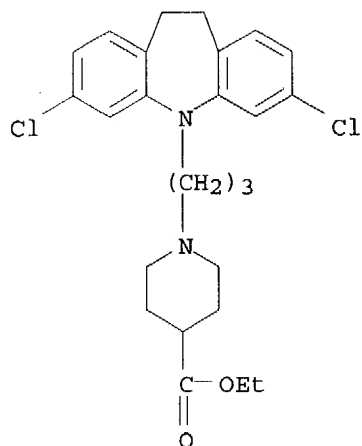
CN 4-Piperidinecarboxylic acid, 1-[3-(2,8-dibromo-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

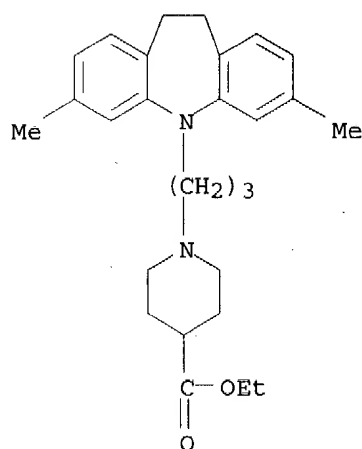
RN 183786-14-3 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(3,7-dichloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



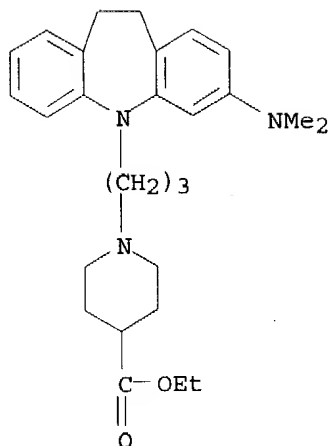
RN 183786-17-6 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3,7-dimethyl-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 183786-19-8 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-[3-(dimethylamino)-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl]propyl]-, ethyl ester (9CI) (CA INDEX NAME)



L13 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:713004 CAPLUS

DOCUMENT NUMBER: 126:8146

TITLE: Novel heterocyclic compounds for treatment of pain and/or inflammation

INVENTOR(S): Joergensen, Tine Krogh; Andersen, Knud Erik; Andersen, Henrik Sune; Hohlweg, Rolf; Madsen, Peter; Olsen, Uffe Bang

PATENT ASSIGNEE(S): Novo Nordisk A/s, Den.

SOURCE: PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

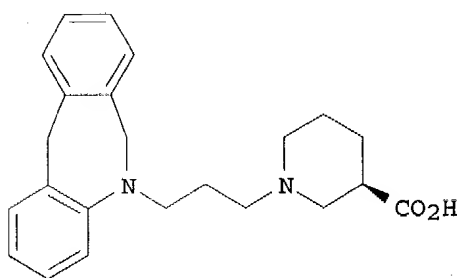
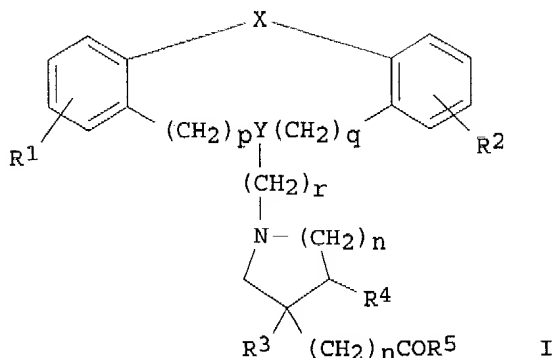
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9631497	A1	19961010	WO 1996-DK138	19960401
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML				
US 5698551	A	19971216	US 1996-623807	19960329
CA 2217206	AA	19961010	CA 1996-2217206	19960401
AU 9651002	A1	19961023	AU 1996-51002	19960401
EP 820450	A1	19980128	EP 1996-907326	19960401
EP 820450	B1	20010912		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 11503126	T2	19990323	JP 1996-529867	19960401
AT 205489	E	20010915	AT 1996-907326	19960401
ZA 9602738	A	19961024	ZA 1996-2738	19960404
US 5747481	A	19980505	US 1997-863749	19970527
US 5750518	A	19980512	US 1997-863751	19970527
US 5780486	A	19980714	US 1997-863257	19970527
US 5846968	A	19981208	US 1997-863746	19970527
PRIORITY APPLN. INFO.:			DK 1995-403	A 19950407
			DK 1995-1006	A 19950911
			US 1996-623807	A3 19960329
			WO 1996-DK138	W 19960401

OTHER SOURCE(S): MARPAT 126:8146
 ED Entered STN: 05 Dec 1996
 GI



AB Compds. I [R1, R2 = H, halo, CF3, OH, alkyl, alkoxy; Y = various trivalent branched radicals: CH2N(CH2), CON(CH2), (CH2)NCO, CH:C(CH2), OCH(CH2), (CH2)CHO, SCH(CH2), etc. (fragments in parentheses not in ring); X = O, S, CR6R7, CH2CH2, CH:CHCH2, COCH2, OCH2, CH2O, SCH2, NR8, NR9, etc.; q, p = 0, 1; r = 1-3; m = 1, 2; n = 1 when m = 1; n = 0 when m = 2; R3, R4 = H, or R3R4 = bond when m = 2; R5 = OH, alkoxy; R6-R9 = H, alkyl] and their pharmaceutically acceptable salts are disclosed. The invention also relates to esters of I, methods of prepn. of I, compns. contg. the compds., and their use for the clin. treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiol. role by eliciting neurogenic pain or inflammation. For example, 6,11-dihydro-5H-dibenz[b,e]azepine was subjected to a sequence of: N-acylation with ClCH2CH2COCl (100%), redn. of carbonyl with LiAlH4, amination of the chloride with (R)-3-piperidinecarboxylic acid Et ester tartrate (42%), and alk. hydrolysis and acidification of the ester (74%), to give title compd. II.HCl. At 0.1 mg/kg in mice, II.HCl gave 36% inhibition of formalin-induced paw pain response.

IT 183615-01-2P

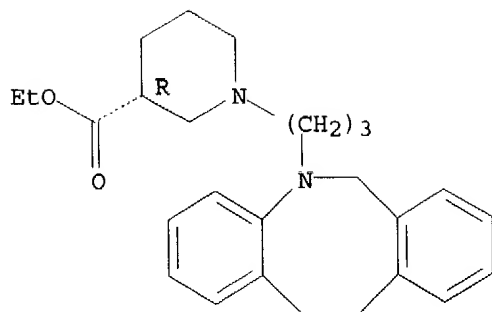
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; prepn. of tricyclic azaheterocyclic carboxylic acids as analgesics and antiinflammatories)

RN 183615-01-2 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



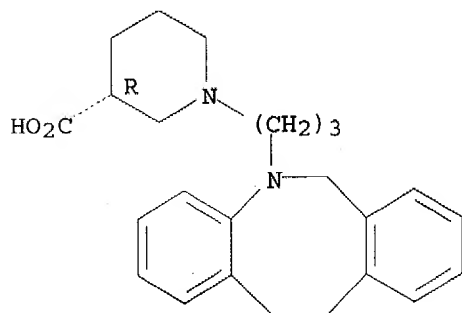
IT 183614-64-4P 183614-78-0P 183614-86-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of tricyclic azaheterocyclic carboxylic acids as analgesics and antiinflammatories)

RN 183614-64-4 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, dihydrochloride, (R)- (9CI) (CA INDEX NAME)

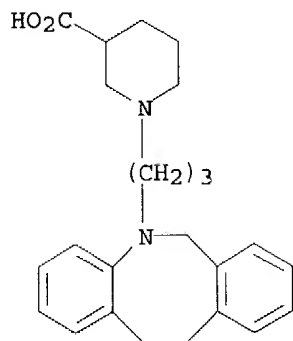
Absolute stereochemistry.



●2 HCl

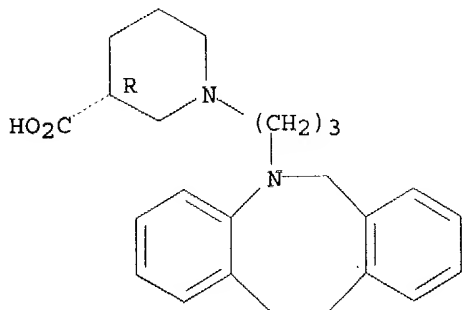
RN 183614-78-0 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]- (9CI) (CA INDEX NAME)



RN 183614-86-0 CAPLUS
 CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, (3R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:913379 CAPLUS

DOCUMENT NUMBER: 123:313776

TITLE: Novel azaheterocyclic acids useful as analgesics and antiinflammatories.

INVENTOR(S): Andersen, Knud Erik; Olsen, Uffe Bang; Petersen, Hans; Groenvald, Frederik Christian; Sonnewald, Ursula; Joergensen, Tine Krogh; Andersen, Henrik Sune

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

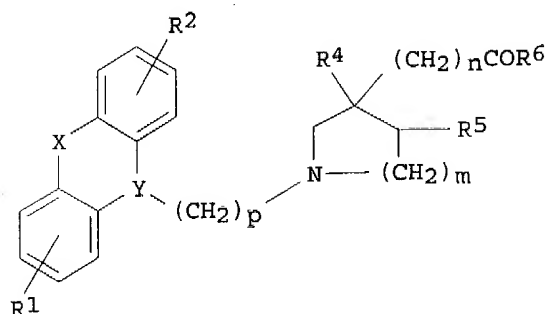
FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

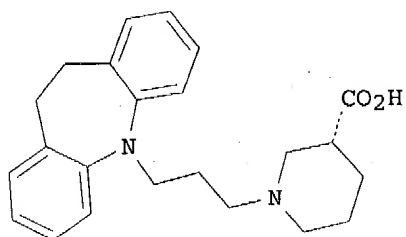
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9518793	A1	19950713	WO 1995-DK2	19950103
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
IL 112222	A1	19991231	IL 1995-112222	19950102
CA 2180238	AA	19950713	CA 1995-2180238	19950103
AU 9513110	A1	19950801	AU 1995-13110	19950103
AU 691858	B2	19980528		
EP 738262	A1	19961023	EP 1995-904409	19950103
EP 738262	B1	20000419		
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CN 1142226	A	19970205	CN 1995-191845	19950103
CN 1083431	B	20020424		
HU 75878	A2	19970528	HU 1996-1842	19950103
JP 09507239	T2	19970722	JP 1995-518275	19950103
JP 2944221	B2	19990830		
BR 9506452	A	19970902	BR 1995-6452	19950103
CZ 286109	B6	20000112	CZ 1996-1921	19950103
AT 191909	E	20000515	AT 1995-904409	19950103
ES 2147837	T3	20001001	ES 1995-904409	19950103
PT 738262	T	20001031	PT 1995-904409	19950103
PL 180209	B1	20010131	PL 1995-315294	19950103

RU 2167152	C2	20010520	RU 1996-116134	19950103
NZ 277763	A	20011130	NZ 1995-277763	19950103
ZA 9500031	A	19960704	ZA 1995-31	19950104
NO 9602811	A	19960904	NO 1996-2811	19960703
FI 9602749	A	19960904	FI 1996-2749	19960704
GR 3033967	T3	20001130	GR 2000-401652	20000717
PRIORITY APPLN. INFO.:			DK 1994-19	A 19940104
			DK 1994-1290	A 19941109
			WO 1995-DK2	W 19950103

OTHER SOURCE(S): CASREACT 123:313776; MARPAT 123:313776
 ED Entered STN: 14 Nov 1995
 GI



I



II

AB The invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters I [R1, R2 = H, halo, CF3, alkyl, alkoxy; Y = NCH2, CHCH2, or C:CH, where only the 1st atom is within the ring; X = O, S, CR7R8, CH2CH2, CH:CHCH2, CH2CH:CH, CH2CH2CH2, CH:CH, NR9CO, OCH2, CO, SO; R7, R8, R9 = H, alkyl; p = 1, 2, 3; m = 1, 2; n = 1 when m = 1; or n = 0 when m = 2; R4 = R5 = H, or R4R5 = bond when m = 2; R6 = OH, alkoxyl]. Also disclosed are prepn. of I, compns. contg. I, and use of I for treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiol. role by eliciting neurogenic pain or inflammation. For example, 10,11-dihydro-5H-dibenz[b,f]azepine was alkylated in the 5-position by NaH and 3-bromopropyl tetrahydro-2-pyranyl ether, followed by deprotection with HCl in refluxing aq. MeOH, to give the 5-(3-hydroxypropyl) deriv. This underwent mesylation with MeSO2Cl and Et3N, and the mesylate was treated with (R)-3-piperidinecarboxylic acid Et ester (tartrate salt) and then hydrolyzed to give title compd. II, isolated as the HCl salt (III). In the formalin-induced pain response test in mice, III at 0.1 mg/kg gave 50% inhibition.

IT 170150-26-2P 170150-27-3P 170150-28-4P
 170150-31-9P 170150-34-2P 170150-42-2P
 170150-47-7P

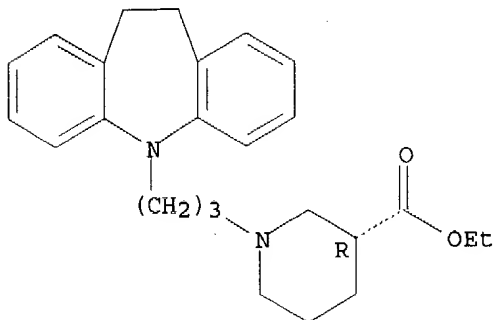
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170150-26-2 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

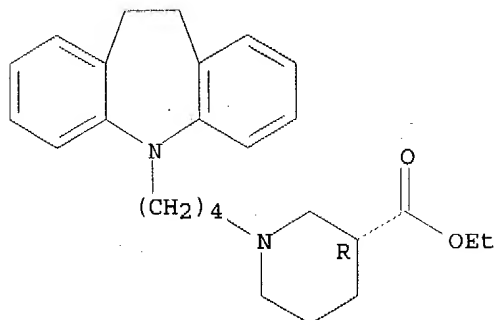
Absolute stereochemistry.



RN 170150-27-3 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

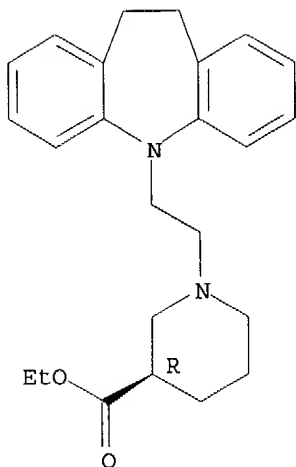
Absolute stereochemistry.



RN 170150-28-4 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

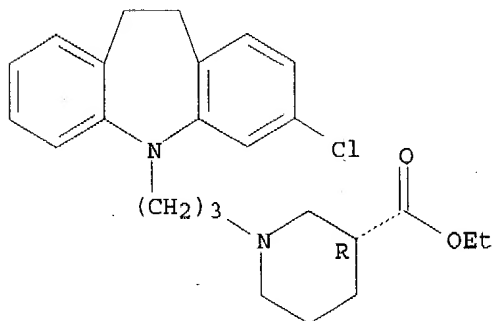
Absolute stereochemistry.



RN 170150-31-9 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

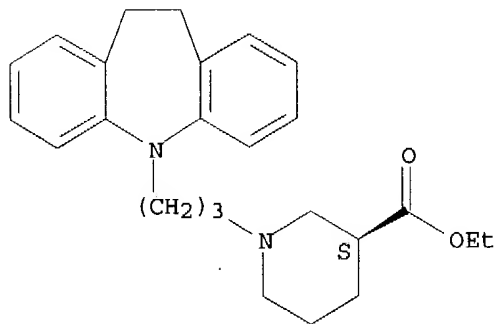
Absolute stereochemistry.



RN 170150-34-2 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

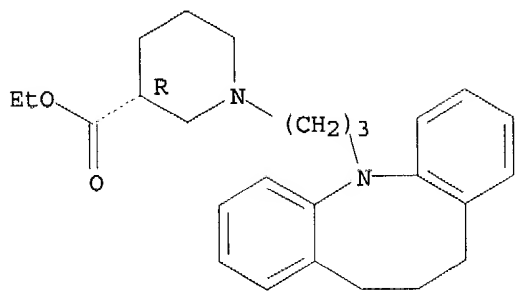


RN 170150-42-2 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

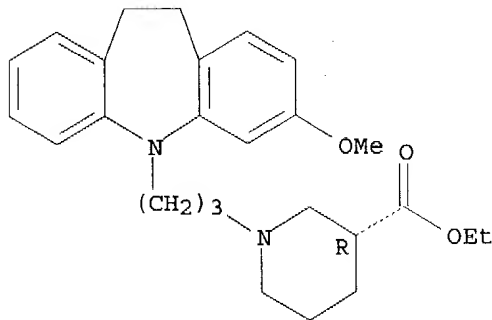
Absolute stereochemistry.



RN 170150-47-7 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 170149-82-3P 170149-83-4P 170149-84-5P

170149-85-6P 170149-90-3P 170149-94-7P

170149-96-9P 170150-05-7P 170150-06-8P

170150-07-9P 170150-08-0P 170150-11-5P

170150-18-2P 170150-20-6P

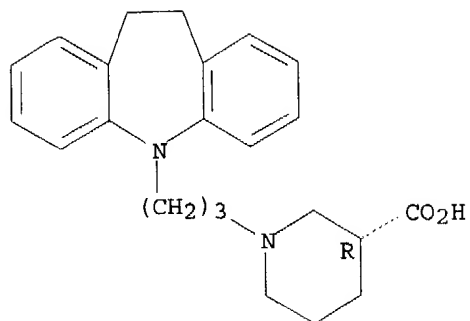
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170149-82-3 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

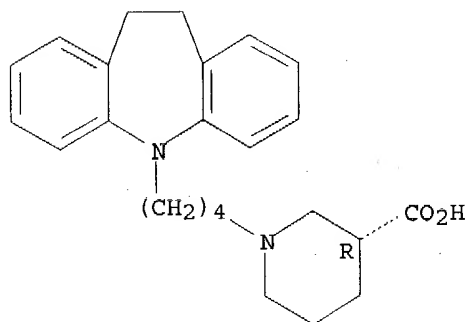


● HCl

RN 170149-83-4 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

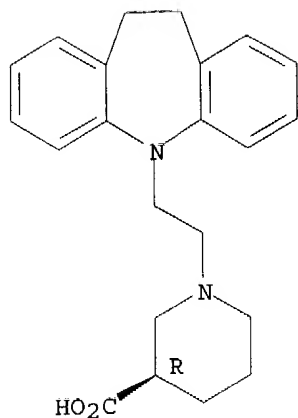


● HCl

RN 170149-84-5 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

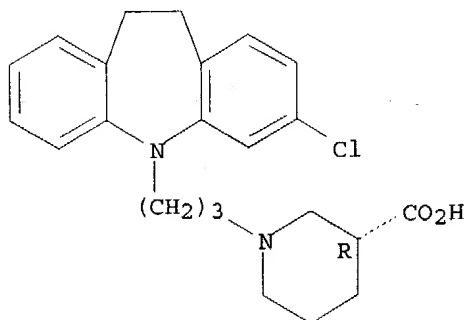
Absolute stereochemistry.



● HCl

RN 170149-85-6 CAPLUS
 CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

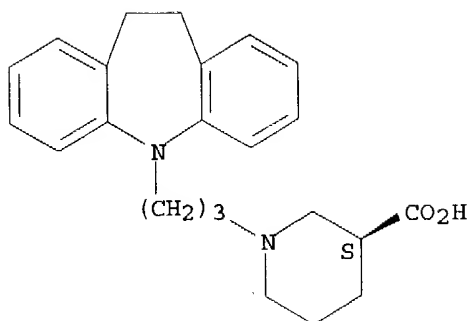
Absolute stereochemistry.



● HCl

RN 170149-90-3 CAPLUS
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

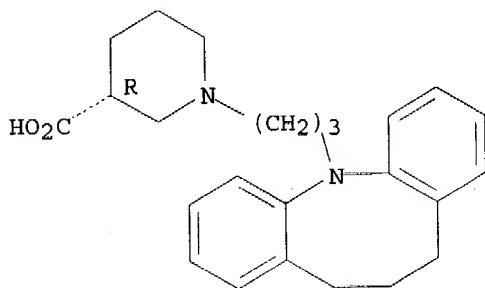
Absolute stereochemistry.



● HCl

RN 170149-94-7 CAPLUS
 CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,f]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

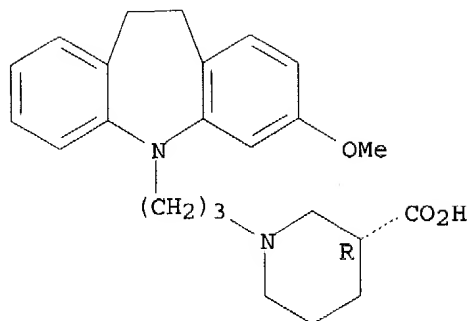
Absolute stereochemistry.



● HCl

RN 170149-96-9 CAPLUS
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

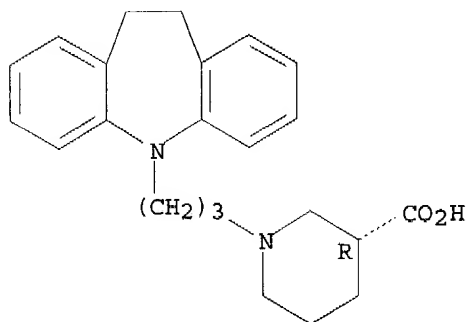


● HCl

RN 170150-05-7 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

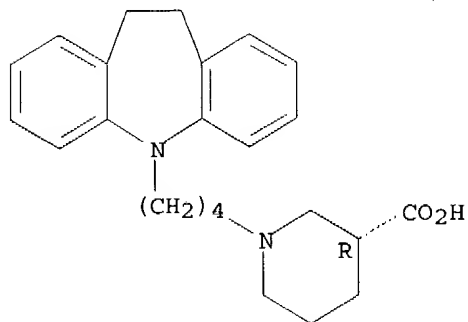
Absolute stereochemistry.



RN 170150-06-8 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, (3R)- (9CI) (CA INDEX NAME)

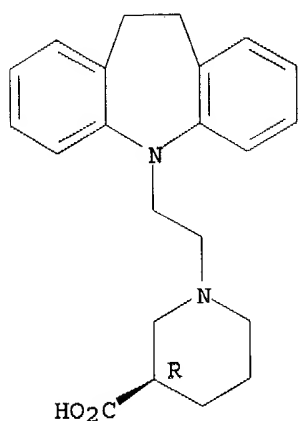
Absolute stereochemistry.



RN 170150-07-9 CAPLUS

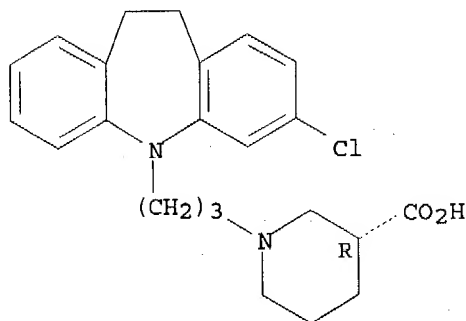
CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



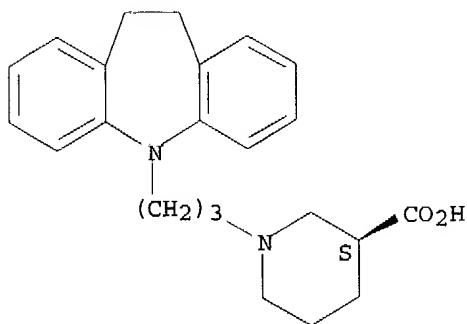
RN 170150-08-0 CAPLUS
 CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 170150-11-5 CAPLUS
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)- (9CI) (CA INDEX NAME)

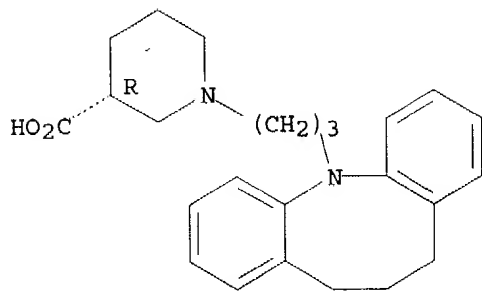
Absolute stereochemistry.



RN 170150-18-2 CAPLUS
 CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-

yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

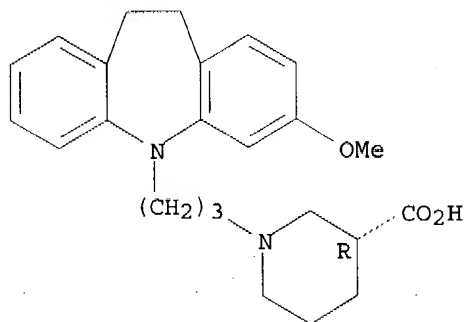
Absolute stereochemistry.



RN 170150-20-6 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1967:499959 CAPLUS

DOCUMENT NUMBER: 67:99959

TITLE: Psychotropic agents. VIII. Analogs of amitriptyline containing the normeperidine group

AUTHOR(S): Davis, Martin Arnold; Herr, Ferenc; Thomas, Roland Alpheus; Charest, Marie P.

CORPORATE SOURCE: Ayerst Res. Labs., Montreal, Can.

SOURCE: Journal of Medicinal Chemistry (1967), 10(4), 627-35
CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

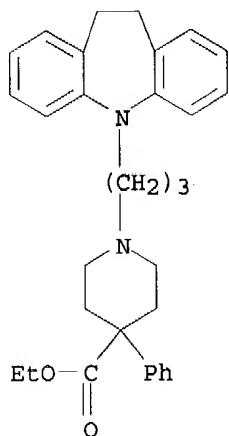
LANGUAGE: English

ED Entered STN: 12 May 1984

GI For diagram(s), see printed CA Issue.

AB cf. CA 66: 1277w. A series of compds. (e.g. I) related to the previously reported 5-[3-(4-carbethoxy-4-phenylpiperidino)propylidene] - 10,11 - dihydro - 5H - dibenzo[a,d]cycloheptene was prepd. These include analogs in which the tricyclic ring and piperidino group were sepd. by one- to three-C side chains in differing states of oxidn. In several cases the corresponding reversed esters were also prepd. Related compds. were made in which the dibenzocycloheptene ring was replaced by an iminodibenzyl, a phenothiazinyl, or a benzhydryl grouping. The prepn. of a no. of novel intermediates is discussed including that of a dibenzocycloheptene 5-spiroepoxide. Analgetic testing showed that several of the compds. had activities in the range of morphine. 61 references.

IT 14187-10-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 14187-10-1 CAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-4-phenyl-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L13 ANSWER 10 OF 27 USPATFULL on STN
 ACCESSION NUMBER: 2003:234797 USPATFULL
 TITLE: N-substituted azaheterocyclic carboxylic acids and their use
 INVENTOR(S): Dorwald, Florenzio Zaragossa, Bagsvaerd, DENMARK
 Andersen, Enud Erik, Sm.o slashed.rum, DENMARK
 Hohlweg, Rolf, Kvistgaard, DENMARK
 Madsen, Peter, Herlev, DENMARK
 J.o slashed.rgensen, Tine Krogh, Herlev, DENMARK
 Olsen, Uffe Bang, Vallensbaek, DENMARK
 Andersen, Henrik Sune, K.o slashed.benhavn, DENMARK
 Treppendahl, Svend, Virum, DENMARK
 Zdenek, Polivka, Praha, CZECH REPUBLIC
 Alexandra, Silhankova, Praha, CZECH REPUBLIC
 Karel, Sindelar, Praha, CZECH REPUBLIC
 PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, DENMARK (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6613791	B1	20030902
APPLICATION INFO.:	US 2000-640605		20000817 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-55574, filed on 6 Apr 1998, now patented, Pat. No. US 6239148		
	Continuation-in-part of Ser. No. US 1996-623289, filed on 28 Mar 1996, now patented, Pat. No. US 5874428		
	Continuation-in-part of Ser. No. US 1995-544682, filed on 18 Oct 1995, now patented, Pat. No. US 5795888		
	Division of Ser. No. US 1995-367648, filed on 3 Jan 1995, now patented, Pat. No. US 5595989		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1994-19	19940104
	DK 1994-1290	19941109
	DK 1995-405	19950407
	DK 1995-1005	19950911
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Berch, Mark L.	
ASSISTANT EXAMINER:	Habte, Kahsay	
LEGAL REPRESENTATIVE:	Agris, Cheryl H., Green, Reza	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)	
LINE COUNT:	1642	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB N-substituted azaheterocycyclic carboxylic acids and esters thereof of the formula I ##STR1##

wherein Z, X, R1, R2 and r are defined in the specification. Compositions thereof and methods for preparing the compounds are disclosed. The compounds are useful for clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammations.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

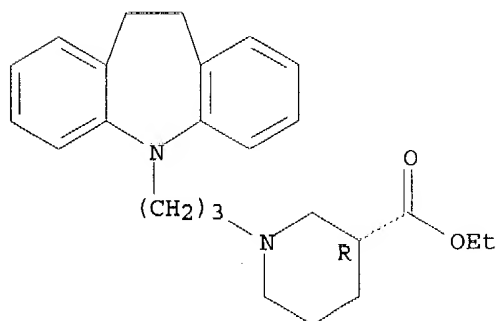
IT 170150-26-2P 170150-27-3P 170150-28-4P
170150-31-9P 170150-34-2P 170150-42-2P
170150-47-7P

(intermediate; prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170150-26-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

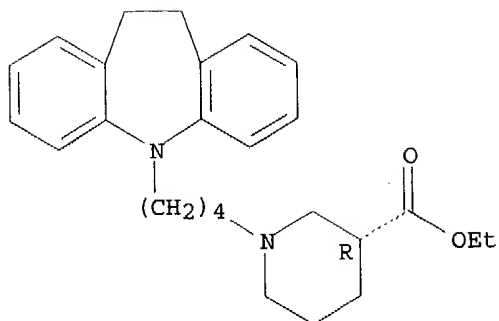
Absolute stereochemistry.



RN 170150-27-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

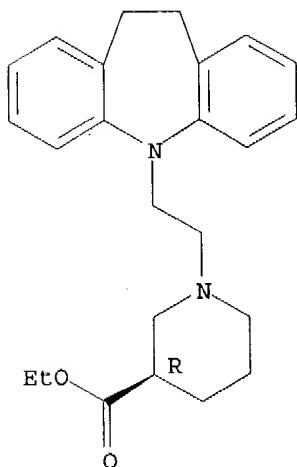
Absolute stereochemistry.



RN 170150-28-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

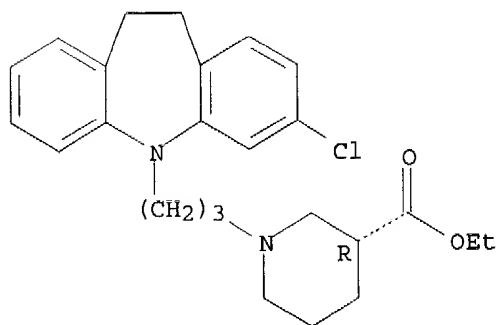
Absolute stereochemistry.



RN 170150-31-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

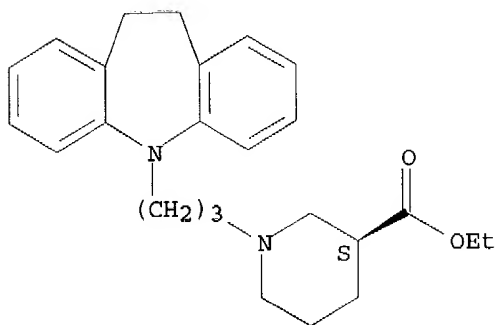
Absolute stereochemistry.



RN 170150-34-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

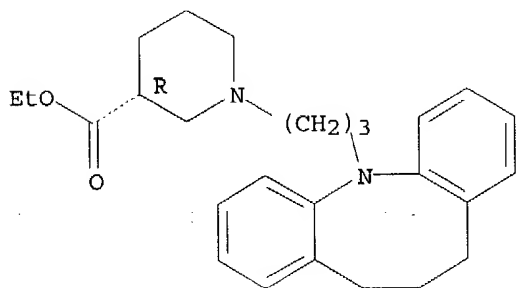
Absolute stereochemistry.



RN 170150-42-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

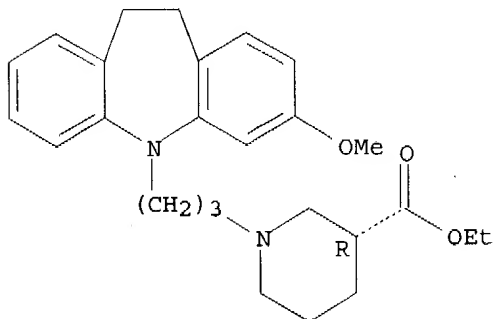
Absolute stereochemistry.



RN 170150-47-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 170149-82-3P 170149-83-4P 170149-84-5P
 170149-85-6P 170149-90-3P 170149-94-7P
 170149-96-9P 170150-05-7P 170150-06-8P
 170150-07-9P 170150-08-0P 170150-11-5P

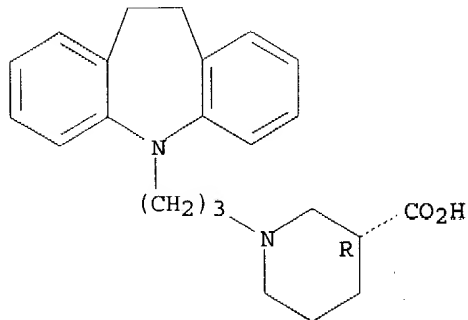
170150-18-2P 170150-20-6P

(prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170149-82-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

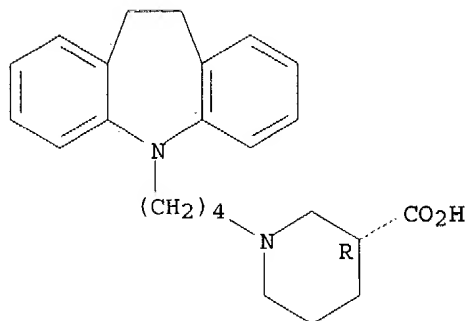


● HCl

RN 170149-83-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

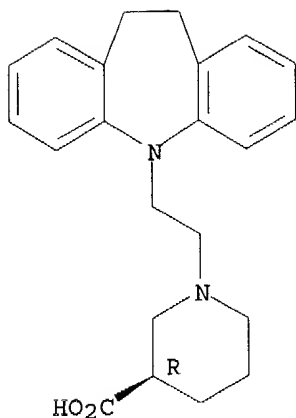


● HCl

RN 170149-84-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

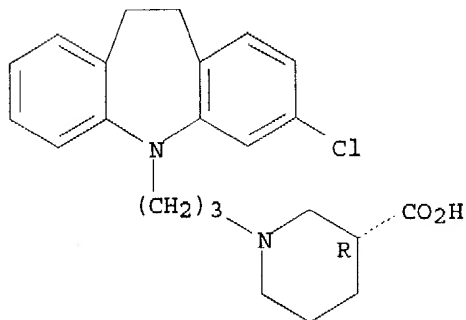


● HCl

RN 170149-85-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

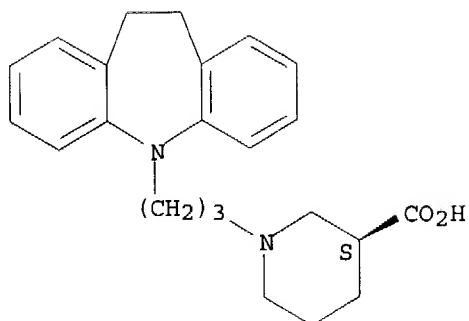


● HCl

RN 170149-90-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

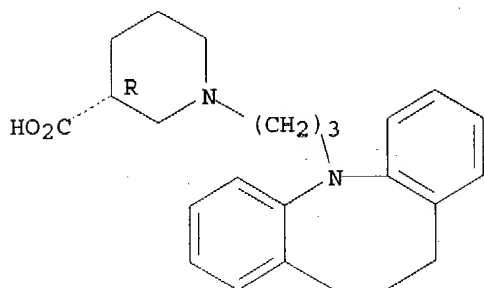
Absolute stereochemistry.



● HCl

RN 170149-94-7 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

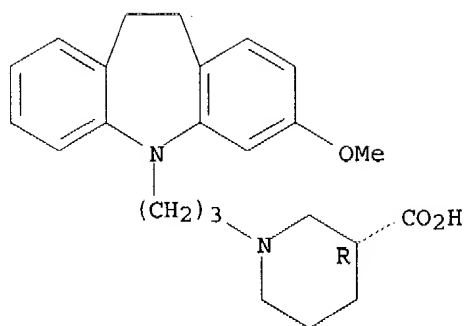
Absolute stereochemistry.



● HCl

RN 170149-96-9 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

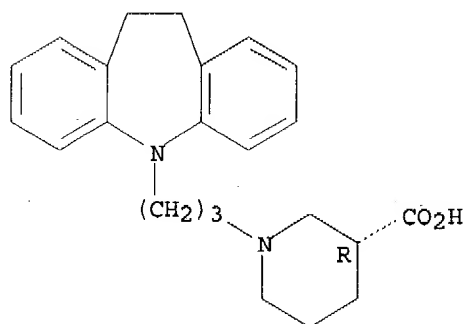


● HCl

RN 170150-05-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

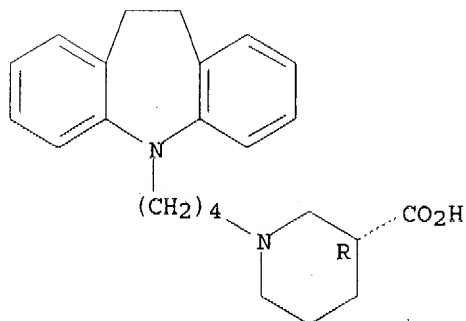
Absolute stereochemistry.



RN 170150-06-8 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, (3R)- (9CI) (CA INDEX NAME)

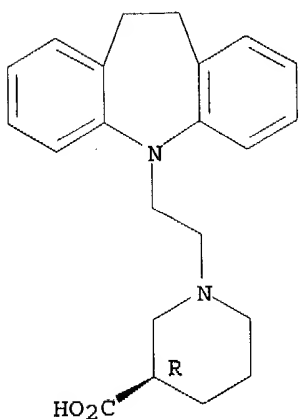
Absolute stereochemistry.



RN 170150-07-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

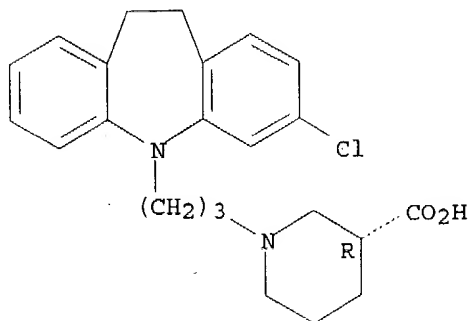
Absolute stereochemistry.



RN 170150-08-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

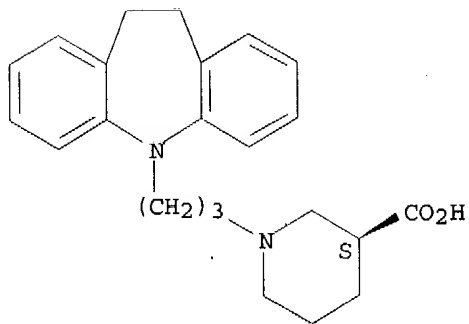
Absolute stereochemistry.



RN 170150-11-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

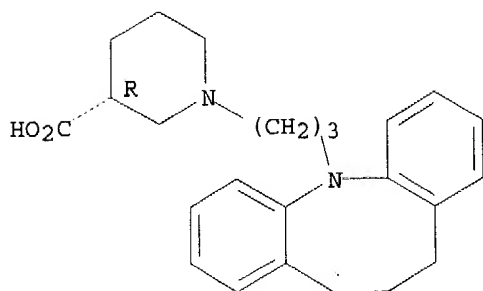


RN 170150-18-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-

yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

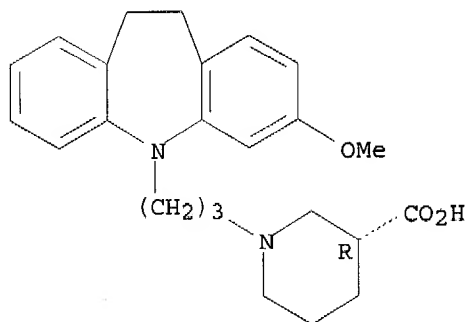
Absolute stereochemistry.



RN 170150-20-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 11 OF 27 USPATFULL on STN

ACCESSION NUMBER: 2002:85568 USPATFULL

TITLE: Use of N-substituted azaheterocyclic compounds for the manufacture of a pharmaceutical composition for the treatment of indications related to angiogenesis

INVENTOR(S): Hansen, Anker Jon, Charlottenlund, DENMARK

Jorgensen, Tine Krogh, Olstykke, DENMARK

Olsen, Uffe Bang, Vallengbaek, DENMARK

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002045610	A1	20020418
APPLICATION INFO.:	US 2001-872127	A1	20010601 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1999-DK671, filed on 1 Dec 1999, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1998-1586	19981202
	US 1998-111445P	19981208 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Reza Green, Esq., Novo Nordisk of North America, Inc., Suite 6400, 405 Lexington Avenue, New York, NY, 10174-6401

NUMBER OF CLAIMS: 38

EXEMPLARY CLAIM: 1

LINE COUNT: 2519

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the use of N-substituted azaheterocyclic compounds or salts thereof, for the treatment of conditions related to angiogenesis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 170150-05-7 170150-06-8 170150-07-9

170150-08-0 170150-11-5 170150-18-2

170150-20-6 183614-78-0 183614-86-0

183785-50-4 183785-54-8 183785-55-9

183785-59-3 183785-60-6 183785-78-6

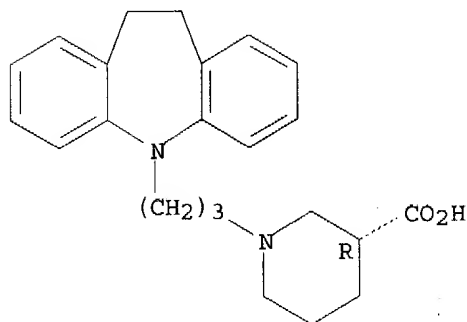
183785-81-1 183785-82-2

(pharmaceutical compns. contg. N-substituted azaheterocyclic compds. for treatment of indications related to angiogenesis)

RN 170150-05-7 USPTFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

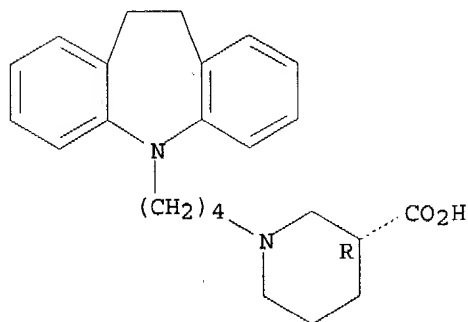
Absolute stereochemistry.



RN 170150-06-8 USPTFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, (3R)- (9CI) (CA INDEX NAME)

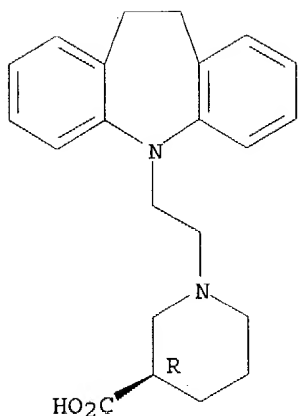
Absolute stereochemistry.



RN 170150-07-9 USPTFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

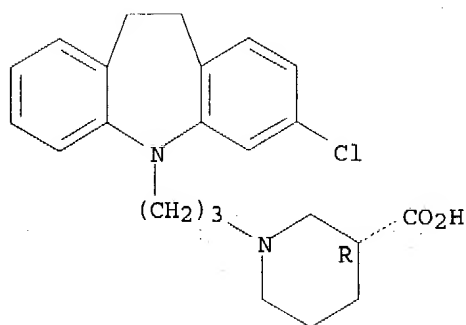
Absolute stereochemistry.



RN 170150-08-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)-(9CI) (CA INDEX NAME)

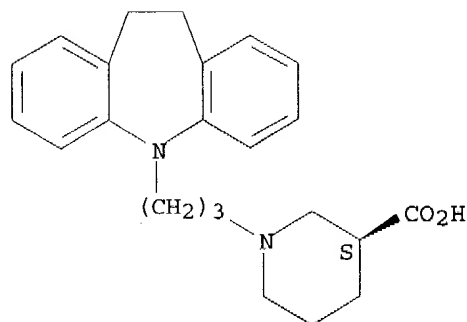
Absolute stereochemistry.



RN 170150-11-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)-(9CI) (CA INDEX NAME)

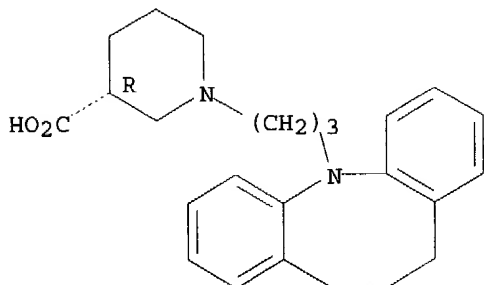
Absolute stereochemistry.



RN 170150-18-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, (3R)-(9CI) (CA INDEX NAME)

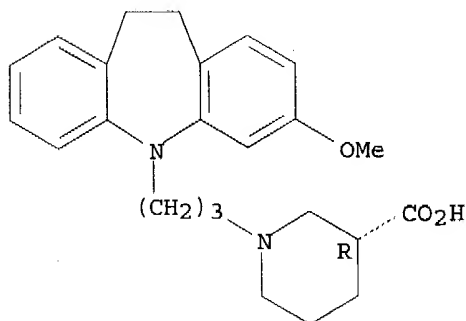
Absolute stereochemistry.



RN 170150-20-6 USPATFULL

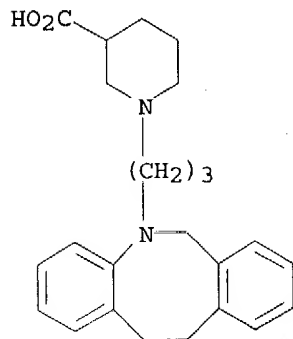
CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 183614-78-0 USPATFULL

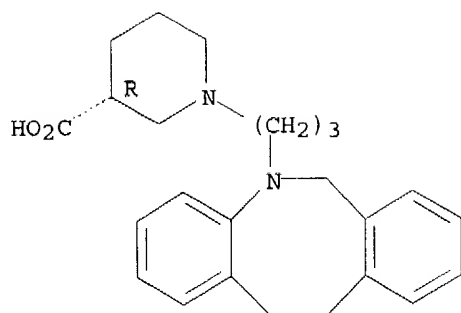
CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]- (9CI) (CA INDEX NAME)



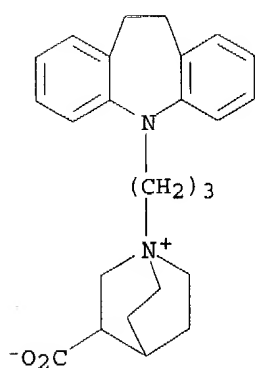
RN 183614-86-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

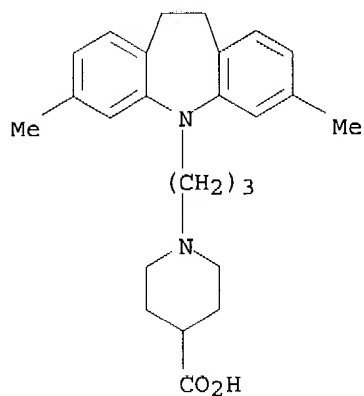
Absolute stereochemistry.



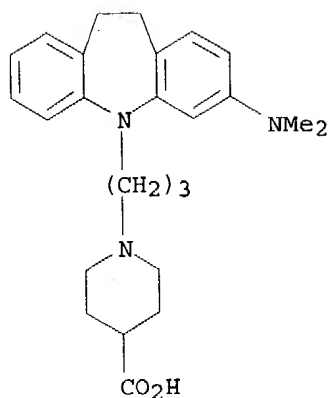
RN 183785-50-4 USPATFULL
 CN 1-Azoniabicyclo[2.2.2]octane, 3-carboxy-1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, inner salt (9CI) (CA INDEX NAME)



RN 183785-54-8 USPATFULL
 CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3,7-dimethyl-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)

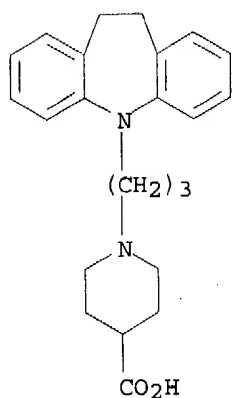


RN 183785-55-9 USPATFULL
 CN 4-Piperidinecarboxylic acid, 1-[3-[3-(dimethylamino)-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl]propyl]- (9CI) (CA INDEX NAME)



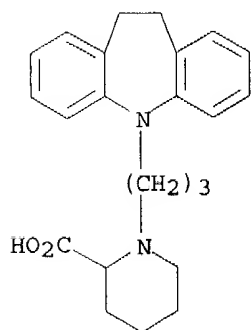
RN 183785-59-3 USPATFULL

CN 4-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



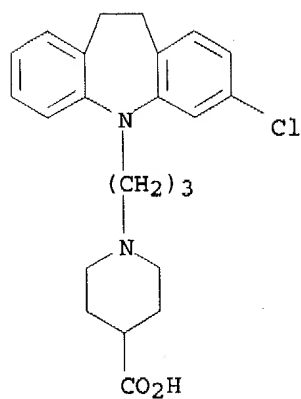
RN 183785-60-6 USPATFULL

CN 2-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



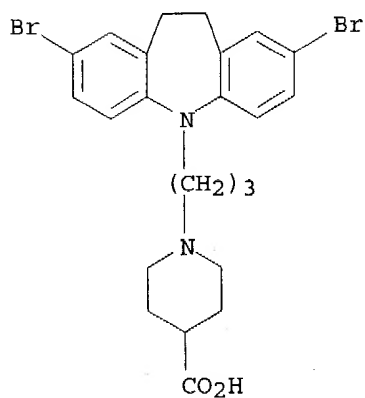
RN 183785-78-6 USPATFULL

CN 4-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



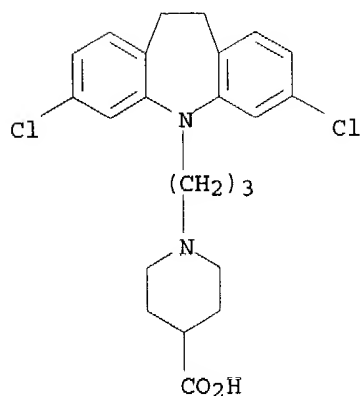
RN 183785-81-1 USPATFULL

CN 4-Piperidinecarboxylic acid, 1-[3-(2,8-dibromo-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



RN 183785-82-2 USPATFULL

CN 4-Piperidinecarboxylic acid, 1-[3-(3,7-dichloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]- (9CI) (CA INDEX NAME)



L13 ANSWER 12 OF 27 USPATFULL on STN

ACCESSION NUMBER: 2000:174636 USPATFULL

TITLE: N-substituted azaheterocyclic carboxylic acids and

esters thereof

INVENTOR(S): Dorwald, Florenzio Zaragossa, Bagsvaerd, Denmark
 Andersen, Knud Erik, Sm.o slashed.rum, Denmark
 Hohlweg, Rolf, Kvistgaard, Denmark
 Madsen, Peter, Herlev, Denmark
 J.o slashed.rgensen, Tine Krogh, Herlev, Denmark
 Olsen, Uffe Bang, Vallensbaek, Denmark
 Andersen, Henrik Sune, K.o slashed.benhavn .O slashed., Denmark
 Treppendahl, Svend, Virum, Denmark
 Polivka, Zdenek, Praha, Czech Republic
 Silhankova , Alexandra, Phara, Czech Republic
 Sindelar, Karel, Praha, Czech Republic

PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6166009		20001226
APPLICATION INFO.:	US 1999-390020		19990903 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-55633, filed on 6 Apr 1998 which is a continuation-in-part of Ser. No. US 1996-623289, filed on 28 Mar 1996, now patented, Pat. No. US 5874428 And a continuation-in-part of Ser. No. US 1995-544682, filed on 18 Oct 1995, now patented, Pat. No. US 5795888 which is a division of Ser. No. US 1995-367648, filed on 3 Jan 1995, now patented, Pat. No. US 5595989		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1994-19	19940104
	DK 1994-1290	19941109
	DK 1995-405	19950407
	DK 1995-1005	19950911

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Shah, Mukund J.

ASSISTANT EXAMINER: Sripada, Pavanaram K

LEGAL REPRESENTATIVE: Zelson, Esq., Steve T., Rozek, Esq., Carol E.

NUMBER OF CLAIMS: 50

EXEMPLARY CLAIM: 1

LINE COUNT: 1773

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

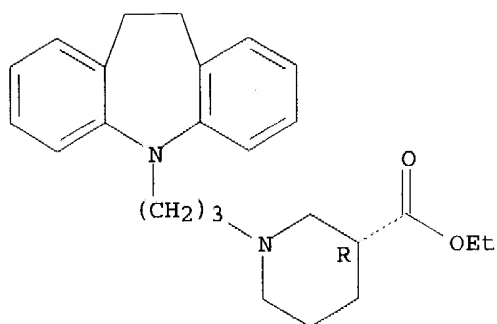
IT 170150-26-2P 170150-27-3P 170150-28-4P
 170150-31-9P 170150-34-2P 170150-42-2P
 170150-47-7P

(intermediate; prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170150-26-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

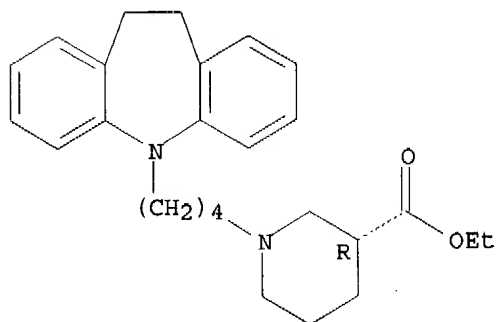
Absolute stereochemistry.



RN 170150-27-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

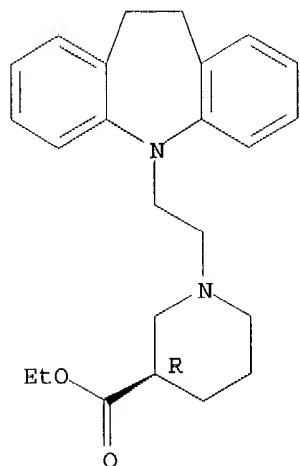
Absolute stereochemistry.



RN 170150-28-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

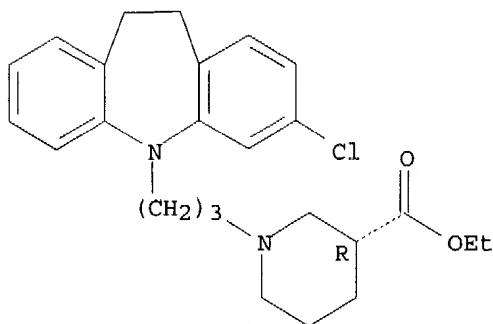
Absolute stereochemistry.



RN 170150-31-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

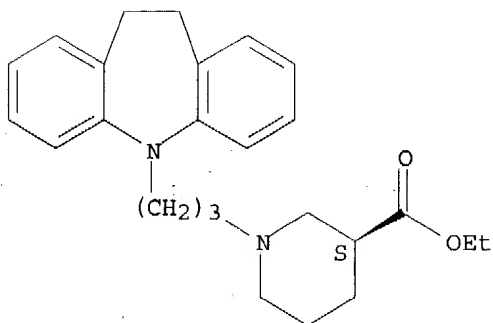
Absolute stereochemistry.



RN 170150-34-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

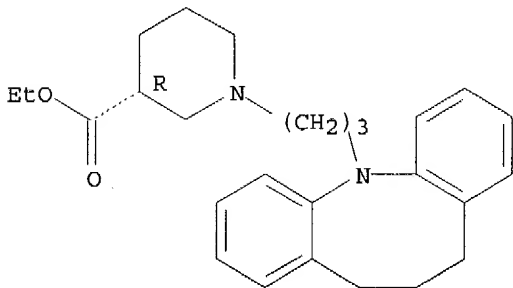
Absolute stereochemistry.



RN 170150-42-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

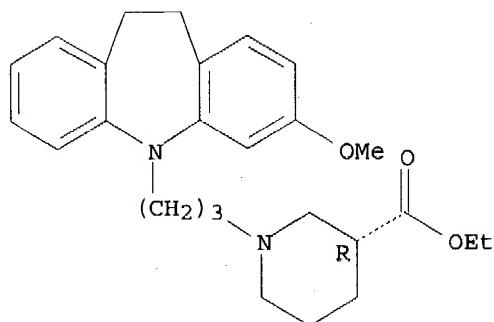
Absolute stereochemistry.



RN 170150-47-7 USPATFULL

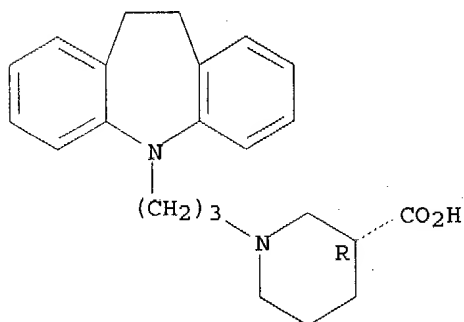
CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 170149-82-3P 170149-83-4P 170149-84-5P
 170149-85-6P 170149-90-3P 170149-94-7P
 170149-96-9P 170150-05-7P 170150-06-8P
 170150-07-9P 170150-08-0P 170150-11-5P
 170150-18-2P 170150-20-6P
 (prepn. of azaheterocyclic acids as analgesics and antiinflammatories)
 RN 170149-82-3 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

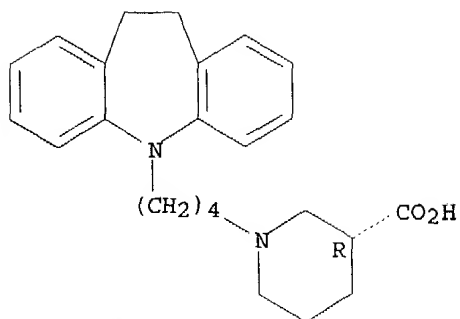
Absolute stereochemistry.



● HCl

RN 170149-83-4 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

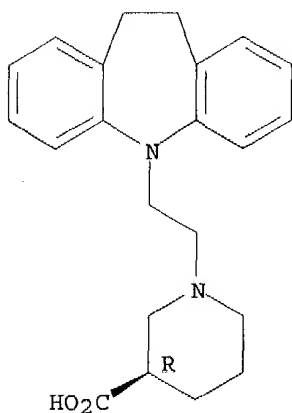


● HCl

RN 170149-84-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

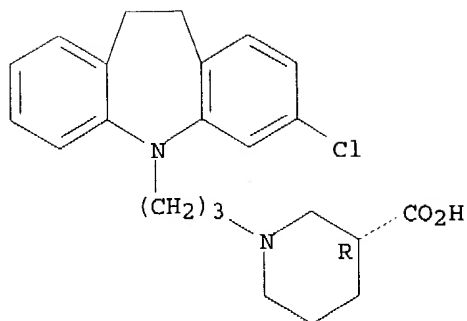


● HCl

RN 170149-85-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

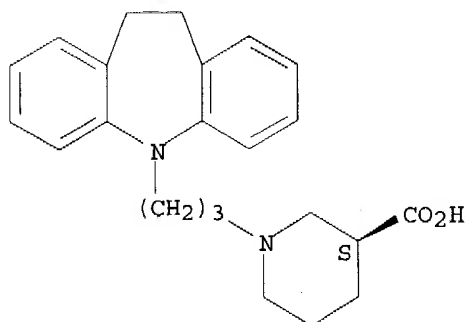
Absolute stereochemistry.



● HCl

RN 170149-90-3 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

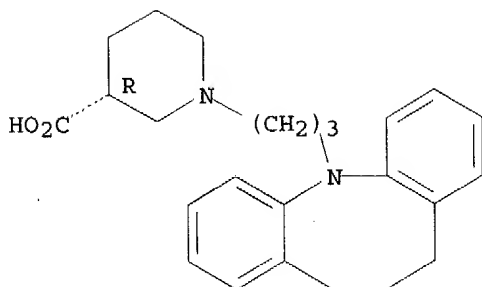
Absolute stereochemistry.



● HCl

RN 170149-94-7 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

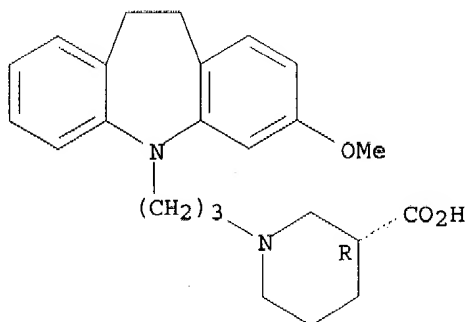


● HCl

RN 170149-96-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

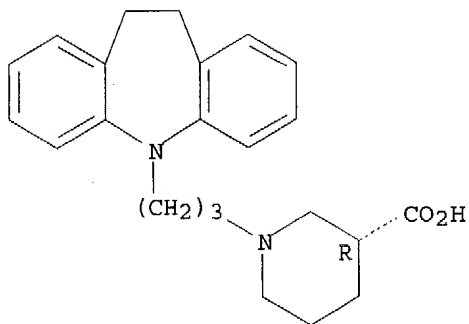


● HCl

RN 170150-05-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

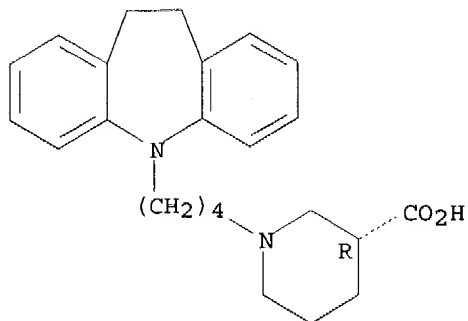
Absolute stereochemistry.



RN 170150-06-8 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, (3R)- (9CI) (CA INDEX NAME)

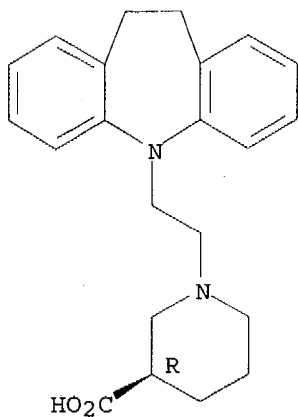
Absolute stereochemistry.



RN 170150-07-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

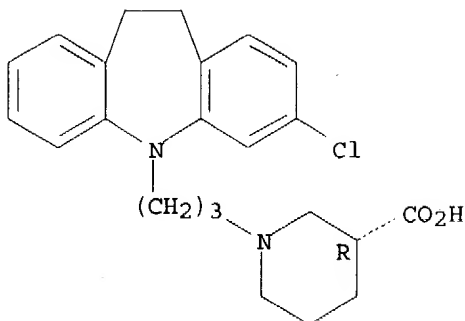
Absolute stereochemistry.



RN 170150-08-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

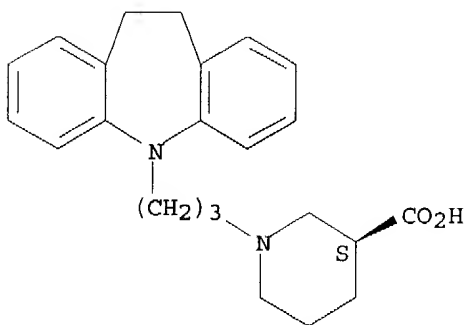
Absolute stereochemistry.



RN 170150-11-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)- (9CI) (CA INDEX NAME)

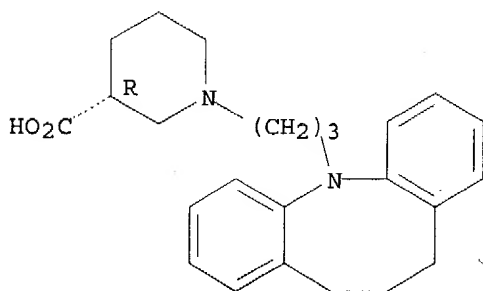
Absolute stereochemistry.



RN 170150-18-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

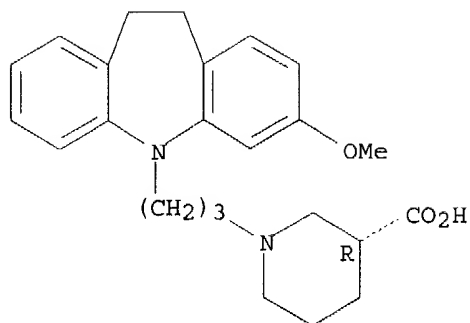
Absolute stereochemistry.



RN 170150-20-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 13 OF 27 USPATFULL on STN

ACCESSION NUMBER: 2000:37795 USPATFULL

TITLE: Heterocyclic compounds

INVENTOR(S): Andersen, Knud Erik, Sm.o slashed.rum, Denmark
 Olsen, Uffe Bang, Vallensb.ae buttet.k, Denmark
 Petersen, Hans, Vanl.o slashed.se, Denmark
 Gr.o slashed.nvald, Frederik Christian, Vedb.ae
 buttet.k, Denmark
 Sonnewald, Ursula, Trondheim, Norway
 J.o slashed.rgensen, Tine Krogh, Herlev, Denmark
 Andersen, Henrik Sune, K.o slashed.benhaven .O
 slashed., Denmark

PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S.
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6043239		20000328
APPLICATION INFO.:	US 1998-12918		19980123 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-544682, filed on 8 Oct 1995, now patented, Pat. No. US 5795888 which is a division of Ser. No. US 1995-367648, filed on 3 Jan 1995, now patented, Pat. No. US 5595989		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1994-19	19940104
	DK 1994-1290	19941109
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Berch, Mark L.	
LEGAL REPRESENTATIVE:	Zelson, Steve T., Rozek, Carol E.	
NUMBER OF CLAIMS:	5	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1299	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 170150-26-2P 170150-27-3P 170150-28-4P

170150-31-9P 170150-34-2P 170150-42-2P

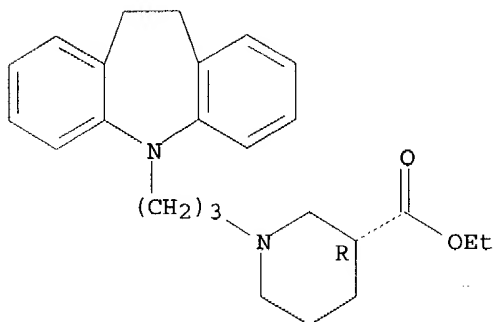
170150-47-7P

(intermediate; prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170150-26-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

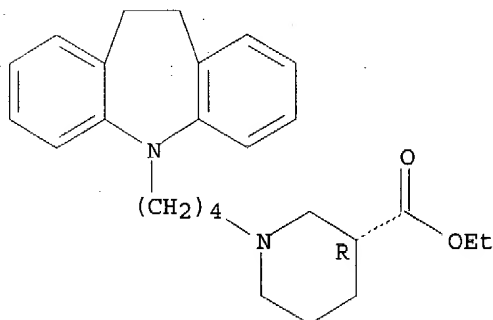
Absolute stereochemistry.



RN 170150-27-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

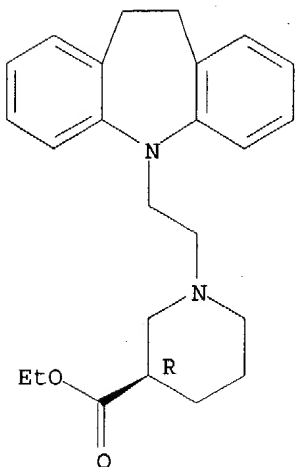
Absolute stereochemistry.



RN 170150-28-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

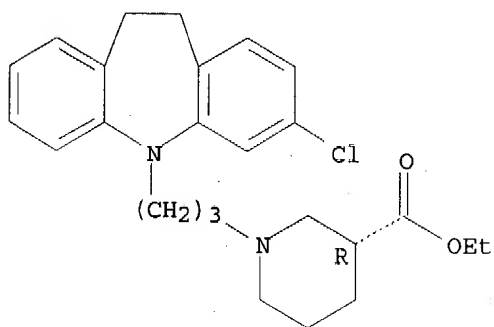
Absolute stereochemistry.



RN 170150-31-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

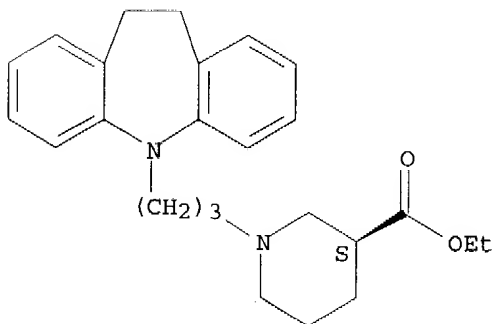
Absolute stereochemistry.



RN 170150-34-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

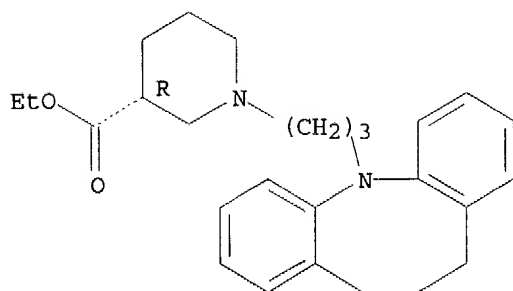
Absolute stereochemistry.



RN 170150-42-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

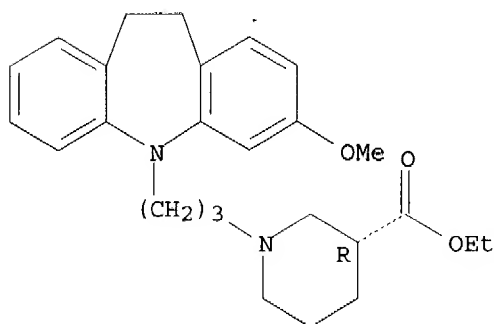
Absolute stereochemistry.



RN 170150-47-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 170149-82-3P 170149-83-4P 170149-84-5P

170149-85-6P 170149-90-3P 170149-94-7P

170149-96-9P 170150-05-7P 170150-06-8P

170150-07-9P 170150-08-0P 170150-11-5P

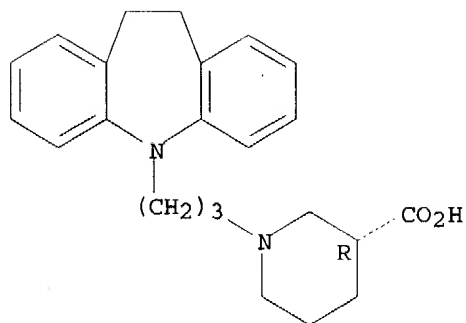
170150-18-2P 170150-20-6P

(prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170149-82-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

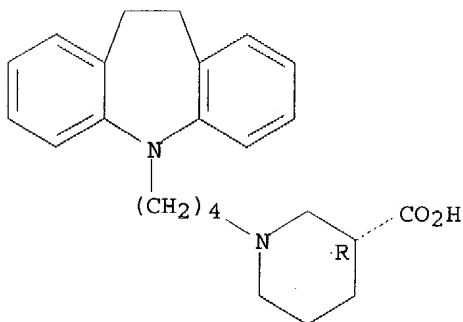


● HCl

RN 170149-83-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

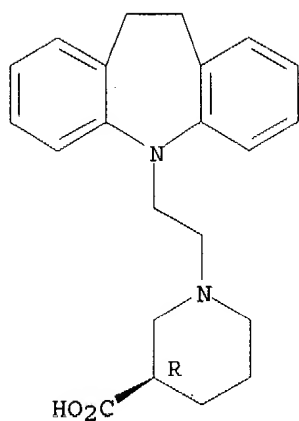


● HCl

RN 170149-84-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

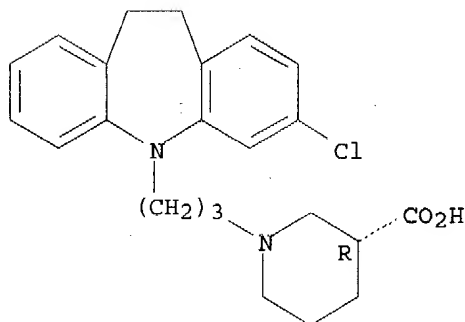


● HCl

RN 170149-85-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

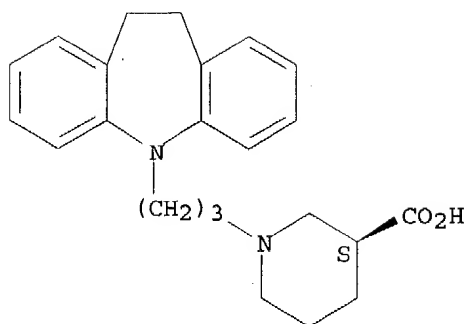


● HCl

RN 170149-90-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

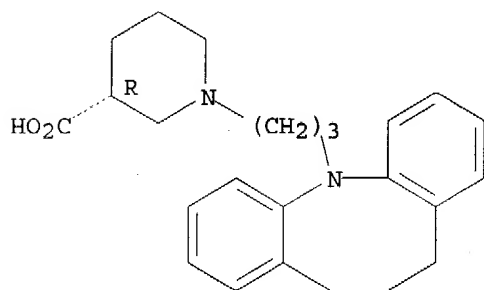


● HCl

RN 170149-94-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

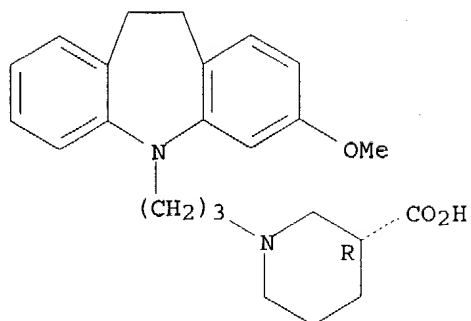


● HCl

RN 170149-96-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

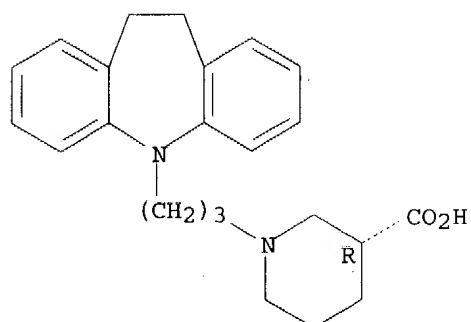


● HCl

RN 170150-05-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

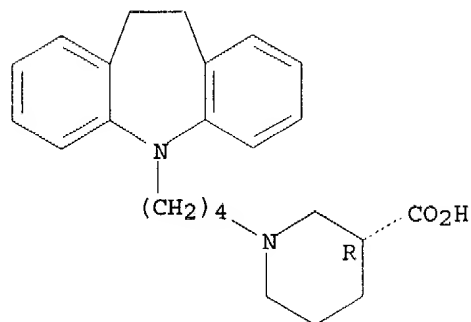
Absolute stereochemistry.



RN 170150-06-8 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, (3R)- (9CI) (CA INDEX NAME)

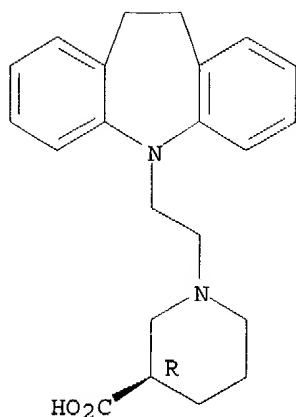
Absolute stereochemistry.



RN 170150-07-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

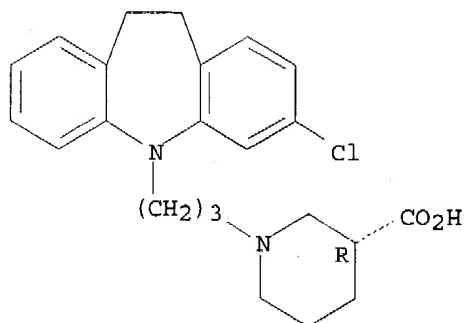
Absolute stereochemistry.



RN 170150-08-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

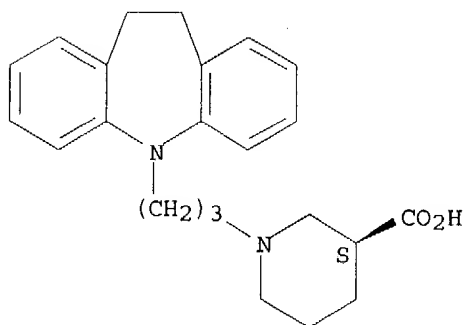
Absolute stereochemistry.



RN 170150-11-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

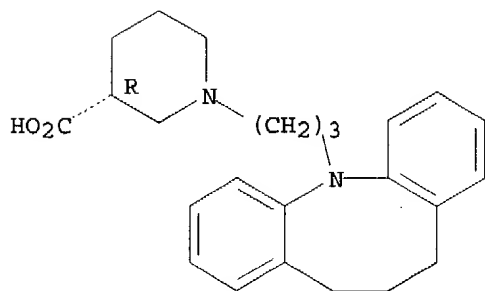


RN 170150-18-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-

yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

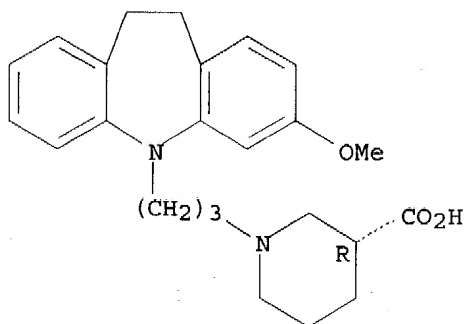
Absolute stereochemistry.



RN 170150-20-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 14 OF 27 USPATFULL on STN

ACCESSION NUMBER: 1999:24646 USPATFULL

TITLE: N-substituted aza-heterocyclic carboxylic acids and esters thereof

INVENTOR(S): D.o slashed.rwald, Florenzio Zaragossa, Bagsvaerd, Denmark
Andersen, Knud Erik, Sm.o slashed.rum, Denmark
Hohlweg, Rolf, Kvistgaard, Denmark
Madsen, Peter, Herlev, Denmark
J.o slashed.rgensen, Tine Krogh, Herlev, Denmark
Olsen, Uffe Bang, Vallensbaek, Denmark
Andersen, Henrik Sune, K.o slashed.benjavn, Denmark
Treppendahl, Svend, Virum, Denmark
Zdenek, Polivka, Prague, Czech Republic
Alexandra, Silhankova, Prague, Czech Republic
Karel, Sindelar, Prague, Czech Republic
PATENT ASSIGNEE(S): Novo Nordisk Als, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5874428		19990223
APPLICATION INFO.:	US 1996-623289		19960328 (8)

NUMBER	DATE

 PRIORITY INFORMATION: DK 1995-405 19950407
 DK 1995-1005 19950911
 DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Shah, Mukund J.
 ASSISTANT EXAMINER: Ngo, Tamthom T.
 LEGAL REPRESENTATIVE: Zelson, Steve T., Harrington, James
 NUMBER OF CLAIMS: 23
 EXEMPLARY CLAIM: 1
 LINE COUNT: 1653

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

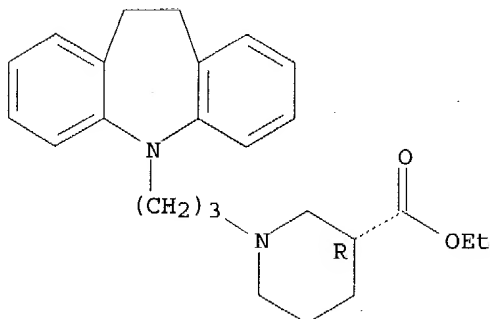
IT 170150-26-2P 170150-27-3P 170150-28-4P
 170150-31-9P 170150-34-2P 170150-42-2P
 170150-47-7P

(intermediate; prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170150-26-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

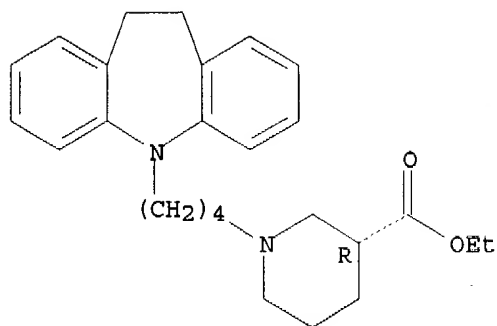
Absolute stereochemistry.



RN 170150-27-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

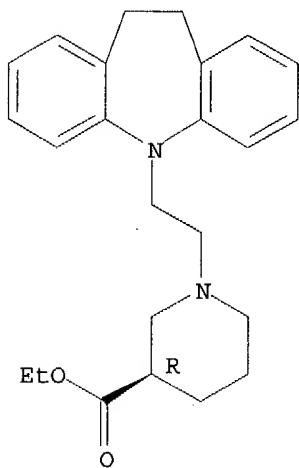
Absolute stereochemistry.



RN 170150-28-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

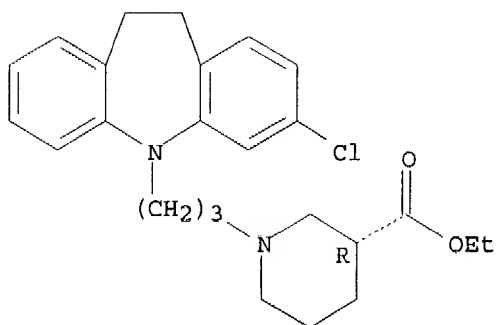
Absolute stereochemistry.



RN 170150-31-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

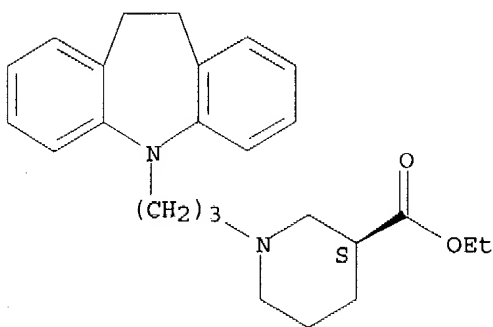
Absolute stereochemistry.



RN 170150-34-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

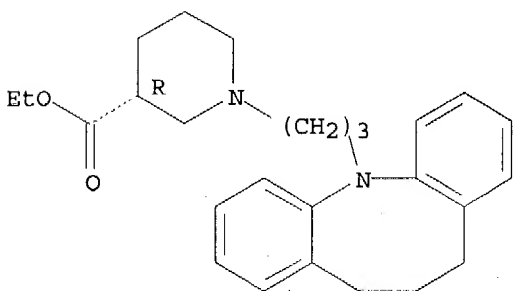
Absolute stereochemistry.



RN 170150-42-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

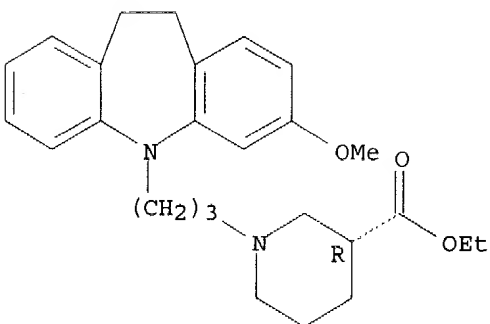
Absolute stereochemistry.



RN 170150-47-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 170149-82-3P 170149-83-4P 170149-84-5P
 170149-85-6P 170149-90-3P 170149-94-7P
 170149-96-9P 170150-05-7P 170150-06-8P
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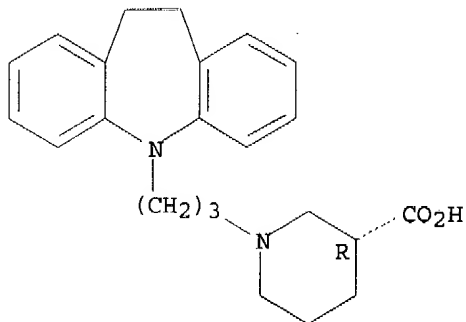
170150-18-2P 170150-20-6P

(prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170149-82-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

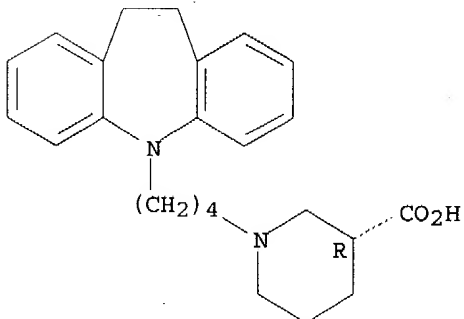


● HCl

RN 170149-83-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

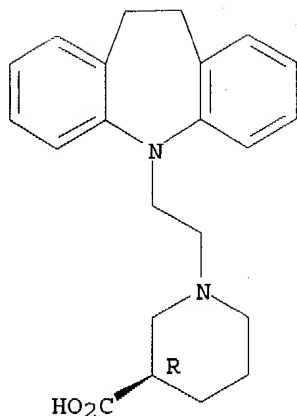


● HCl

RN 170149-84-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

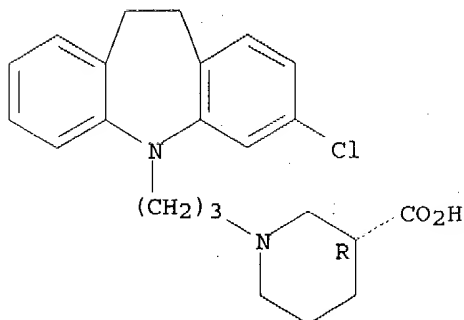
Absolute stereochemistry.



● HCl

RN 170149-85-6 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

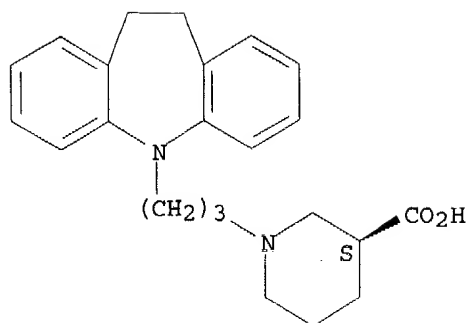
Absolute stereochemistry.



● HCl

RN 170149-90-3 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

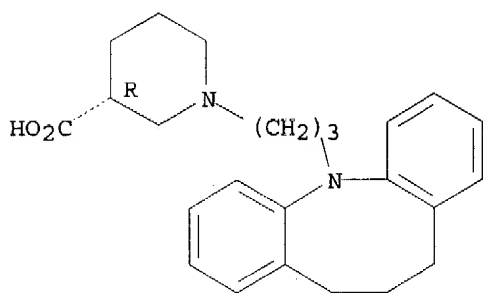
Absolute stereochemistry.



● HCl

RN 170149-94-7 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

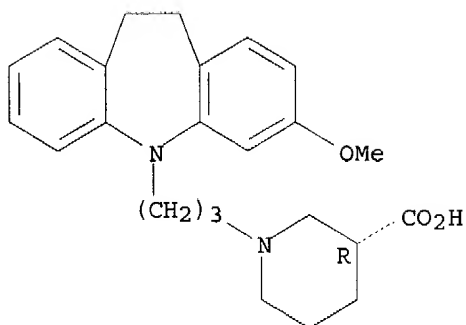
Absolute stereochemistry.



● HCl

RN 170149-96-9 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

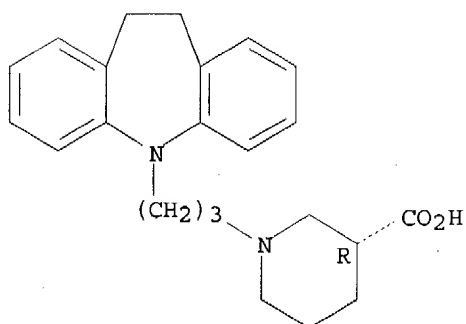


● HCl

RN 170150-05-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

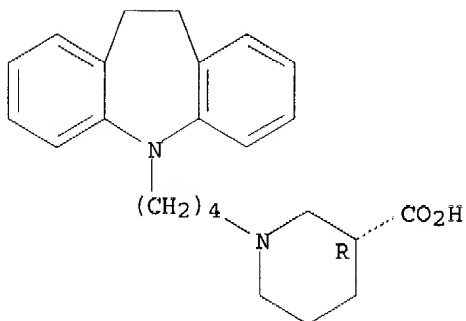
Absolute stereochemistry.



RN 170150-06-8 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, (3R)- (9CI) (CA INDEX NAME)

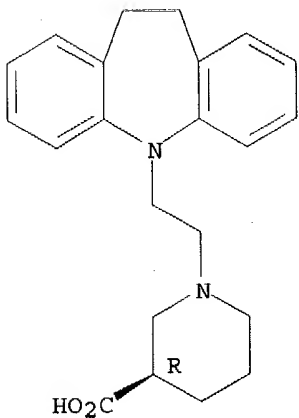
Absolute stereochemistry.



RN 170150-07-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

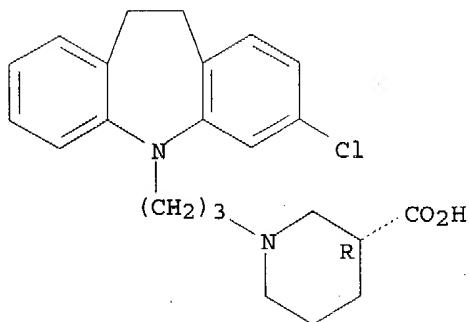
Absolute stereochemistry.



RN 170150-08-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

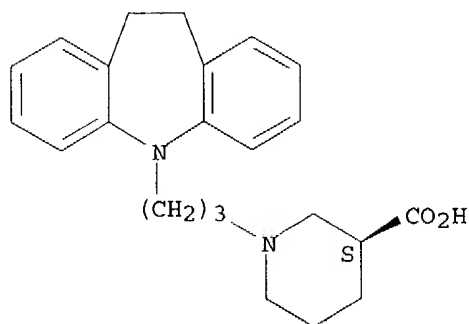
Absolute stereochemistry.



RN 170150-11-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

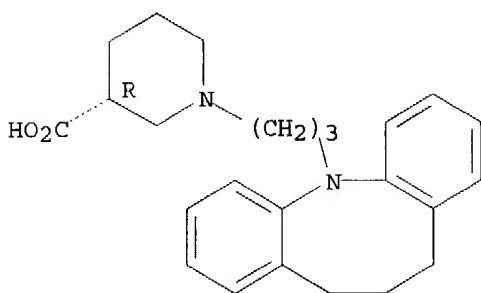


RN 170150-18-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-

yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

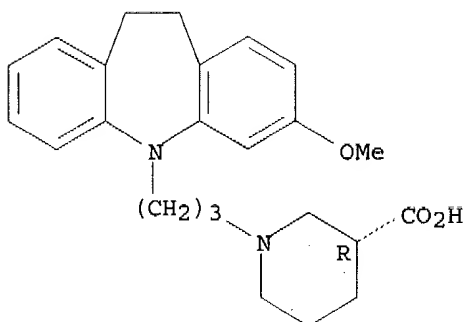
Absolute stereochemistry.



RN 170150-20-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 15 OF 27 USPATFULL on STN

ACCESSION NUMBER: 1998:154275 USPATFULL

TITLE: N-substituted azaheterocyclic carboxylic acids and esters

INVENTOR(S): J.o slashed.rgensen, Tine Krogh, Herlev, Denmark
Andersen, Knud Erik, Sm.o slashed.rum, Denmark
Andersen, Henrik Sune, K.o slashed.benhavn .O slashed., Denmark

Hohlweg, Rolf, Kvistgaard, Denmark
Madsen, Peter, Bagsv.ae butted.rd, Denmark
Olsen, Uffe Bang, Vallensb.ae butted.k, Denmark

PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5846968		19981208
APPLICATION INFO.:	US 1997-863746		19970527 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-623807, filed on 29 Mar 1996, now patented, Pat. No. US 5698551		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1995-403	19950407
	DK 1995-1006	19950911

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Shah, Mukund J.
ASSISTANT EXAMINER: Rao, Deepak
LEGAL REPRESENTATIVE: Zelson, Steve T., Lambiris, Elias J.
NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 1
LINE COUNT: 1096

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

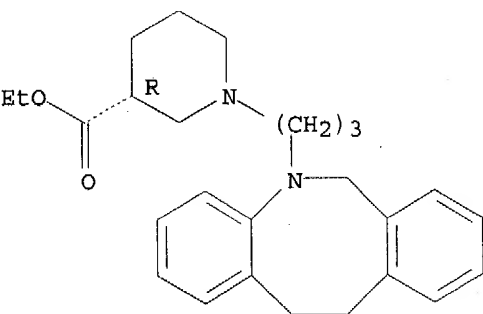
IT 183615-01-2P

(intermediate; prepn. of tricyclic azaheterocyclic carboxylic acids as analgesics and antiinflammatories)

RN 183615-01-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



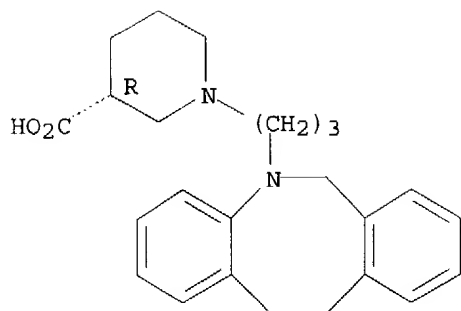
IT 183614-64-4P 183614-78-0P 183614-86-0P

(prepn. of tricyclic azaheterocyclic carboxylic acids as analgesics and antiinflammatories)

RN 183614-64-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, dihydrochloride, (R)- (9CI) (CA INDEX NAME)

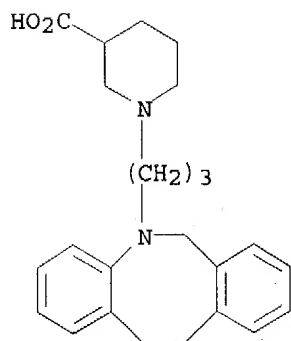
Absolute stereochemistry.



● 2 HCl

RN 183614-78-0 USPATFULL

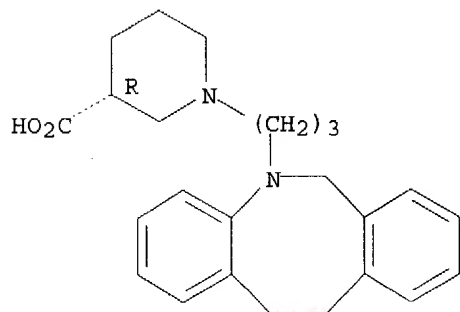
CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]- (9CI) (CA INDEX NAME)



RN 183614-86-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 16 OF 27 USPATFULL on STN

ACCESSION NUMBER: 1998:98912 USPATFULL

TITLE: N-substituted azaheterocyclic carboxylic acids and esters thereof

INVENTOR(S): Andersen, Knud Erik, Sm.o slashed.rum, Denmark
 Olsen, Uffe Bang, Vallensb.ae butted.k, Denmark
 Petersen, Hans, Vanl.o slashed.se, Denmark
 Gr.o slashed.nvald, Frederik Christian, Vedb.ae
 butted.k, Denmark
 Sonnewald, Ursula, Trondheim, Denmark
 J.o slashed.rgensen, Tine Krogh, Herlev, Denmark
 Andersen, Henrik Sune, K.o slashed.benhaven, Denmark

PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S.
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5795888		19980818
APPLICATION INFO.:	US 1995-544682		19951018 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-367648, filed on 3 Jan 1995, now patented, Pat. No. US 5595989		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1994-19	19940104
	DK 1994-1290	19941109
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Berch, Mark L.	
LEGAL REPRESENTATIVE:	Zelson, Steve T., Lambiris, Elias J.	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1,3	
LINE COUNT:	1356	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

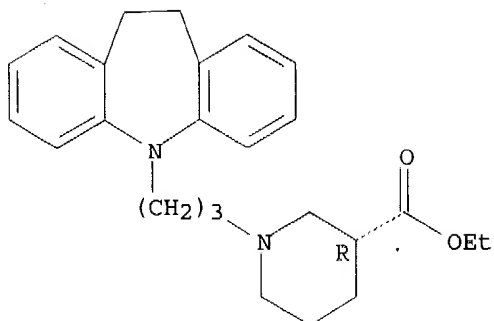
IT 170150-26-2P 170150-27-3P 170150-28-4P
 170150-31-9P 170150-34-2P 170150-42-2P
 170150-47-7P

(intermediate; prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170150-26-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

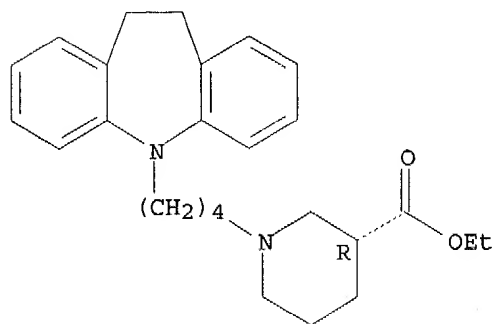
Absolute stereochemistry.



RN 170150-27-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

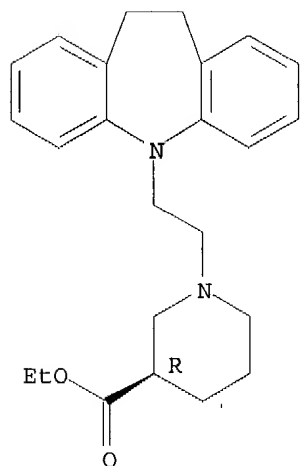
Absolute stereochemistry.



RN 170150-28-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

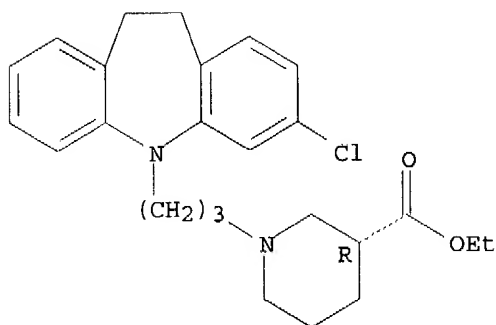


RN 170150-31-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-

dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

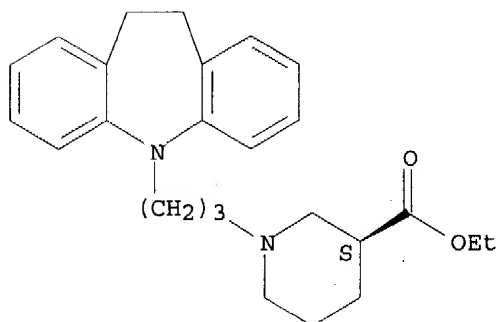
Absolute stereochemistry.



RN 170150-34-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

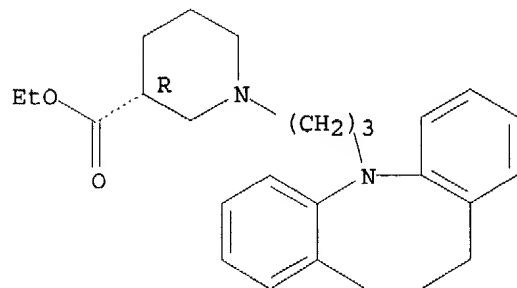
Absolute stereochemistry.



RN 170150-42-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

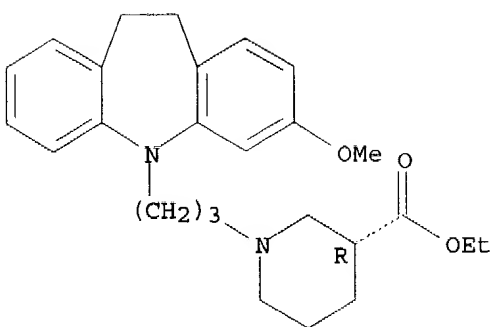
Absolute stereochemistry.



RN 170150-47-7 USPATFULL

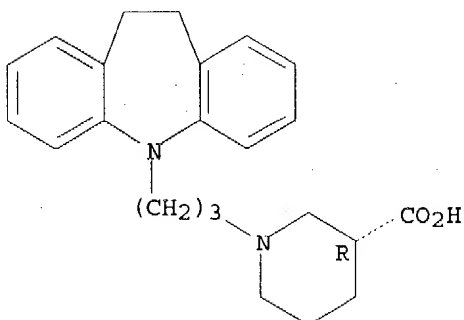
CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 170149-82-3P 170149-83-4P 170149-84-5P
 170149-85-6P 170149-90-3P 170149-94-7P
 170149-96-9P 170150-05-7P 170150-06-8P
 170150-07-9P 170150-08-0P 170150-11-5P
 170150-18-2P 170150-20-6P
 (prepn. of azaheterocyclic acids as analgesics and antiinflammatories)
 RN 170149-82-3 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

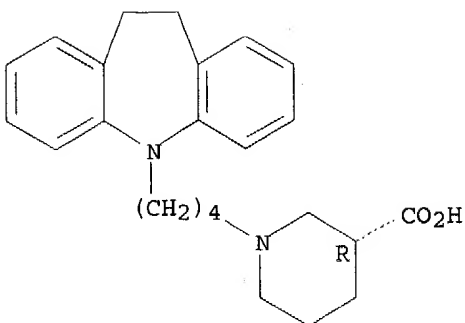
Absolute stereochemistry.



● HCl

RN 170149-83-4 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

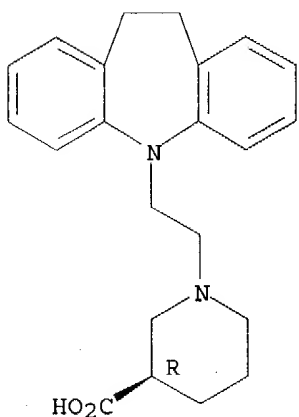
Absolute stereochemistry.



● HCl

RN 170149-84-5 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

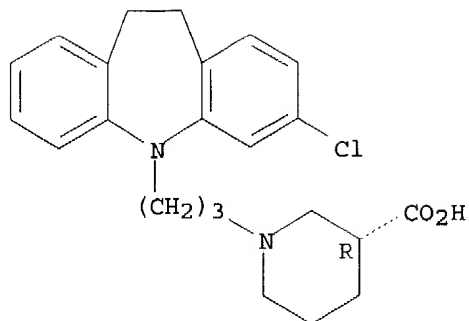
Absolute stereochemistry.



● HCl

RN 170149-85-6 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

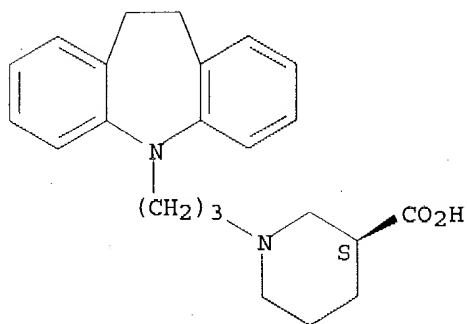


● HCl

RN 170149-90-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

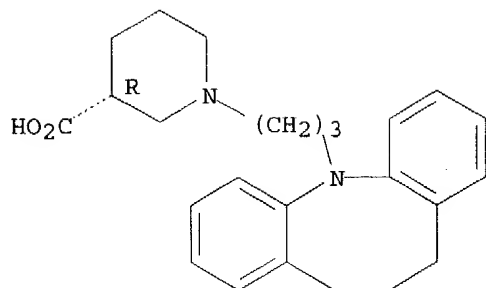


● HCl

RN 170149-94-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

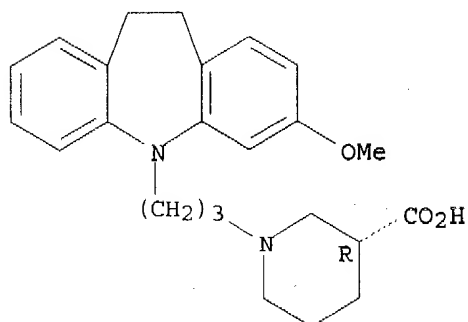


● HCl

RN 170149-96-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

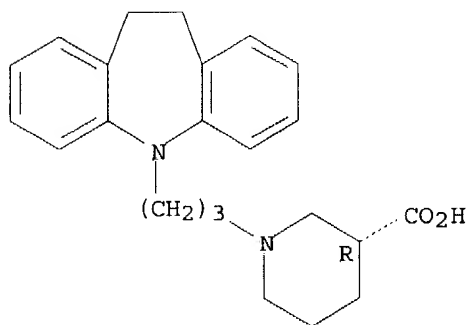


● HCl

RN 170150-05-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

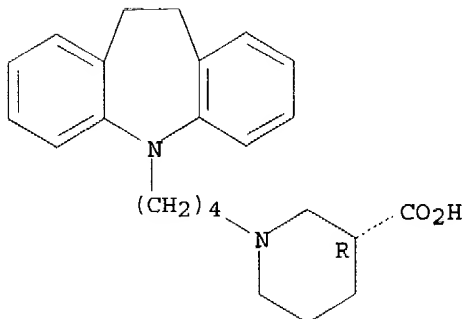
Absolute stereochemistry.



RN 170150-06-8 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, (3R)- (9CI) (CA INDEX NAME)

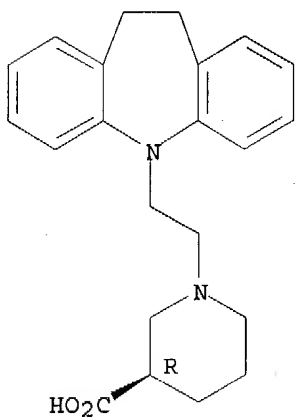
Absolute stereochemistry.



RN 170150-07-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

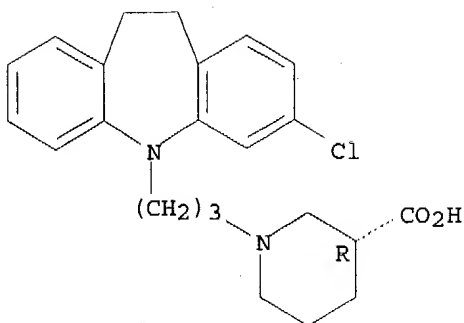
Absolute stereochemistry.



RN 170150-08-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

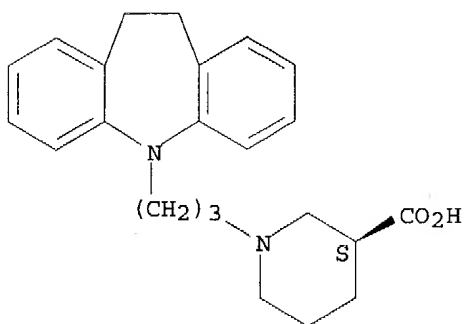
Absolute stereochemistry.



RN 170150-11-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)- (9CI) (CA INDEX NAME)

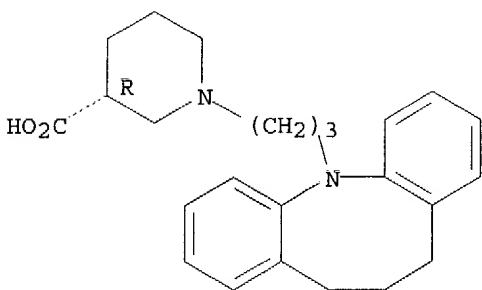
Absolute stereochemistry.



RN 170150-18-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

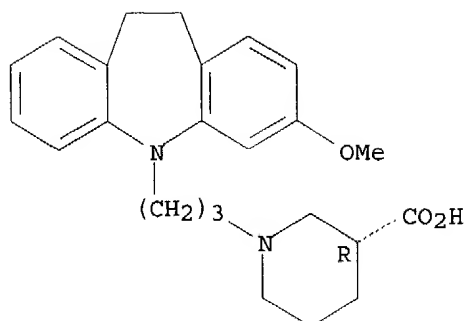
Absolute stereochemistry.



RN 170150-20-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 17 OF 27 USPATFULL on STN
 ACCESSION NUMBER: 1998:82773 USPATFULL
 TITLE: Heterocyclic compounds
 INVENTOR(S): J.o slashed.rgensen, Tine Krogh, Herlev, Denmark
 Andersen, Knud Erik, Sm.o slashed.rum, Denmark
 Andersen, Henrik Sune, K.o slashed.behhavn.o slashed.,
 Denmark
 Hohlweg, Rolf, Kvistgaard, Denmark
 Madsen, Peter, Bagsv.ae butted.rd, Denmark
 Olsen, Uffe Bang, Vallensb.ae butted.k, Denmark
 PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S.
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5780486		19980714
APPLICATION INFO.:	US 1997-863257		19970527 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-623807, filed on 29 Mar 1996, now patented, Pat. No. US 5698551		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1995-403	19950407
	DK 1995-1006	19950911
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Chang, Ceila	
LEGAL REPRESENTATIVE:	Zelson, Steve T., Lambiris, Elias J.	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1080	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 183615-01-2P

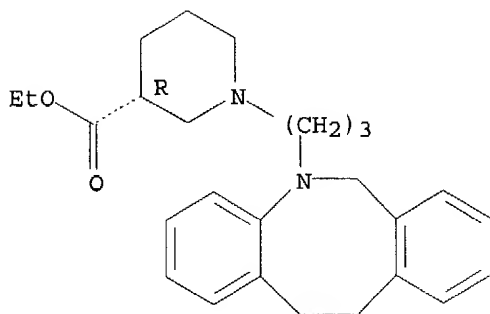
(intermediate; prepn. of tricyclic azaheterocyclic carboxylic acids as analgesics and antiinflammatories)

RN 183615-01-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-

yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



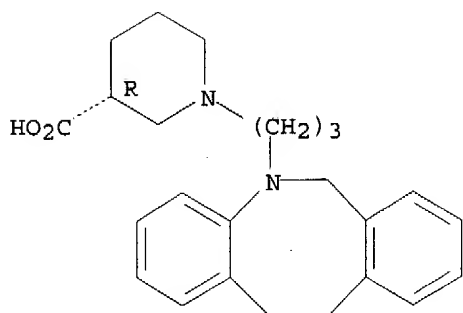
IT 183614-64-4P 183614-78-0P 183614-86-0P

(prepn. of tricyclic azaheterocyclic carboxylic acids as analgesics and antiinflammatories)

RN 183614-64-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, dihydrochloride, (R)- (9CI) (CA INDEX NAME)

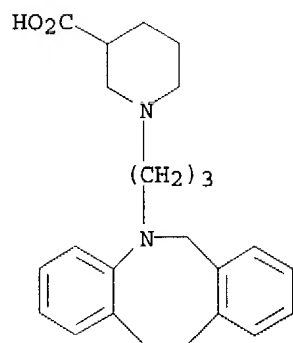
Absolute stereochemistry.



●2 HCl

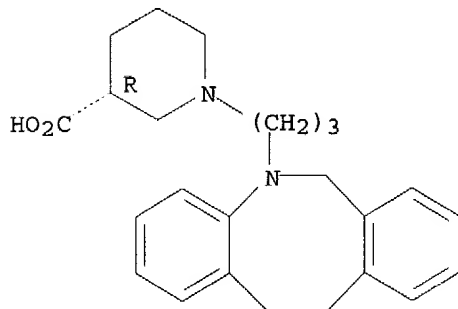
RN 183614-78-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]- (9CI) (CA INDEX NAME)



RN 183614-86-0 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 18 OF 27 USPATFULL on STN
 ACCESSION NUMBER: 1998:51594 USPATFULL
 TITLE: Heterocyclic compounds
 INVENTOR(S): J.o slashed.rgensen, Tine Krogh, Herlev, Denmark
 Andersen, Knud Erik, Sm.o slashed.rum, Denmark
 Andersen, Henrik Sune, K.o slashed.benhavn, Denmark
 Hohlweg, Rolf, Kvistgaard, Denmark
 Madsen, Peter, Bagsv.ae buttet.rd, Denmark
 Olsen, Uffe Bang, Vallensb.ae buttet.k, Denmark
 PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsv.ae buttet.rd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5750518		19980512
APPLICATION INFO.:	US 1997-863751		19970527 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-623807, filed on 29 Mar 1996		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1995-403	19950407
	DK 1995-1006	19950911
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Shah, Mukund J.	
ASSISTANT EXAMINER:	Rao, Deepak R.	
LEGAL REPRESENTATIVE:	Zelson, Steve T., Lambiris, Elias J.	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1112	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

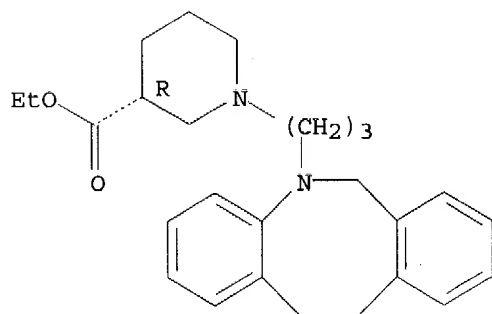
IT 183615-01-2P

(intermediate; prepn. of tricyclic azaheterocyclic carboxylic acids as analgesics and antiinflammatories)

RN 183615-01-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



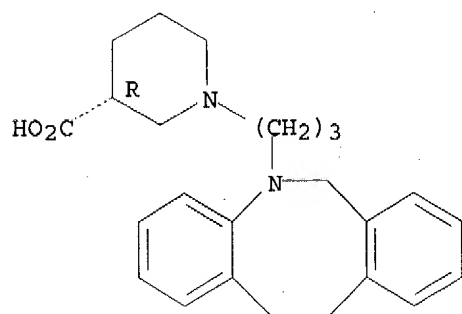
IT 183614-64-4P 183614-78-0P 183614-86-0P

(prepn. of tricyclic azaheterocyclic carboxylic acids as analgesics and antiinflammatories)

RN 183614-64-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, dihydrochloride, (R)- (9CI) (CA INDEX NAME)

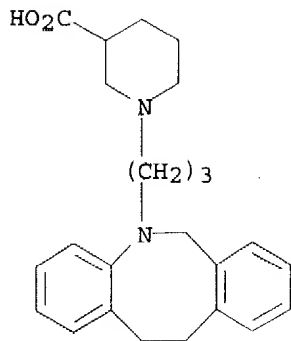
Absolute stereochemistry.



● 2 HCl

RN 183614-78-0 USPATFULL

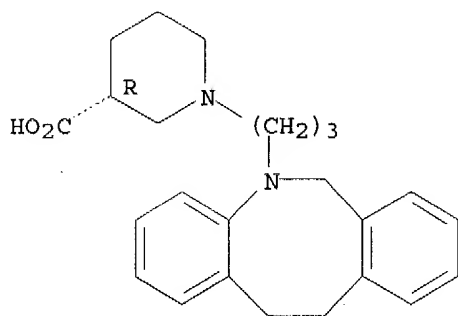
CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]- (9CI) (CA INDEX NAME)



RN 183614-86-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 19 OF 27 USPATFULL on STN

ACCESSION NUMBER: 1998:48399 USPATFULL

TITLE: Heterocyclic compounds

INVENTOR(S): J.o slashed.rgensen, Tine Krough, Herlev, Denmark
 Andersen, Knud Erik, Sm.o slashed.rum, Denmark
 Andersen, Henrik Sune, K.o slashed.benhavn .O slashed., Denmark
 Hohlweg, Rolf, Kvistgaard, Denmark
 Madsen, Peter, Bagsv.ae butted.rd, Denmark
 Olsen, Uffe Bang, Vallensb.ae butted.k, Denmark

PATENT ASSIGNEE(S): Novo Nordisk A/J, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5747481		19980505
APPLICATION INFO.:	US 1997-863749		19970527 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-623807, filed on 29 Mar 1996		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1995-403	19950407
	DK 1995-1006	19950911
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Shah, Mukund J.	

ASSISTANT EXAMINER: Rao, Deepak R.
 LEGAL REPRESENTATIVE: Zelson, Steve T., Lambiris, Elias J.
 NUMBER OF CLAIMS: 25
 EXEMPLARY CLAIM: 1
 LINE COUNT: 1097

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

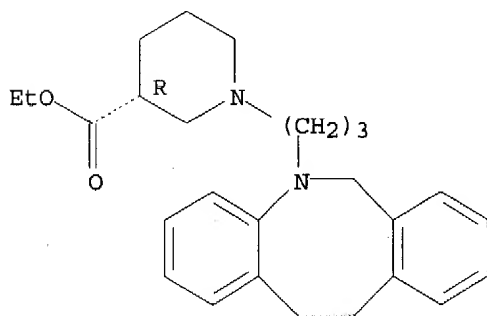
IT 183615-01-2P

(intermediate; prepn. of tricyclic azaheterocyclic carboxylic acids as analgesics and antiinflammatories)

RN 183615-01-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



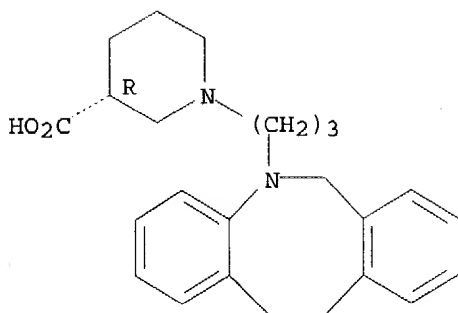
IT 183614-64-4P 183614-78-0P 183614-86-0P

(prepn. of tricyclic azaheterocyclic carboxylic acids as analgesics and antiinflammatories)

RN 183614-64-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, dihydrochloride, (R)- (9CI) (CA INDEX NAME)

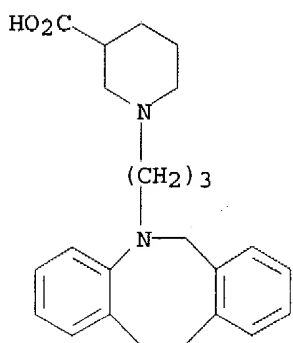
Absolute stereochemistry.



● 2 HCl

RN 183614-78-0 USPATFULL

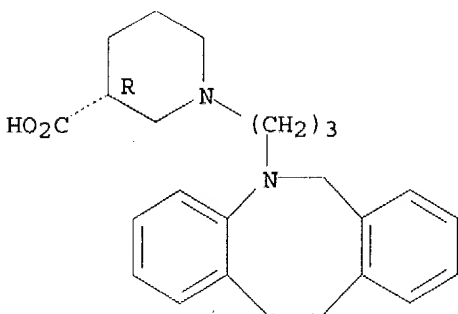
CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]- (9CI) (CA INDEX NAME)



RN 183614-86-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 20 OF 27 USPATFULL on STN

ACCESSION NUMBER: 1998:42359 USPATFULL

TITLE: Method of reducing blood glucose

INVENTOR(S): Olsen, Uffe Bang, Vallensbaek, Denmark

PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5741791		19980421
APPLICATION INFO.:	US 1996-766839		19961213 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1995-1426	19951215
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Cintins, Marianne M.	
ASSISTANT EXAMINER:	Jones, Dwayne C.	
LEGAL REPRESENTATIVE:	Zelson, Esq., Steve T., Lambiris, Esq., Eliass J.	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1555	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the use of compounds of the general formula ##STR1## for reducing blood glucose and/or inhibit the secretion, circulation or effect of insulin antagonizing peptides like CGRP or amylin. Hence the compound can be used in the treatment of insulin resistance related to NIDDM (non-insulin-dependent diabetes mellitus) or aging.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

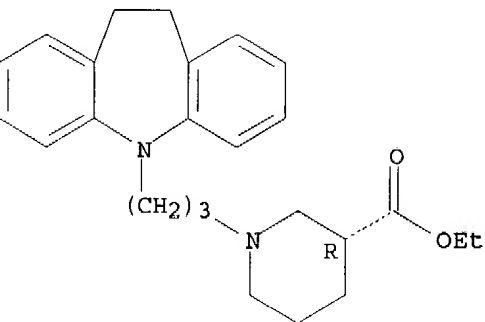
IT 170150-26-2P 170150-27-3P 170150-28-4P
170150-31-9P 170150-34-2P 170150-42-2P
170150-47-7P

(prepn. of piperidinecarboxylic acid derivs. for reducing blood glucose levels)

RN 170150-26-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

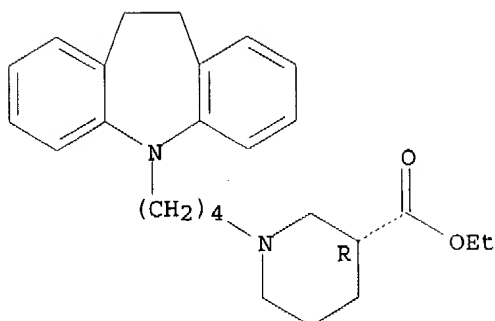
Absolute stereochemistry.



RN 170150-27-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

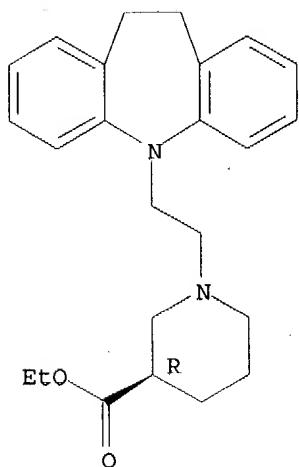
Absolute stereochemistry.



RN 170150-28-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

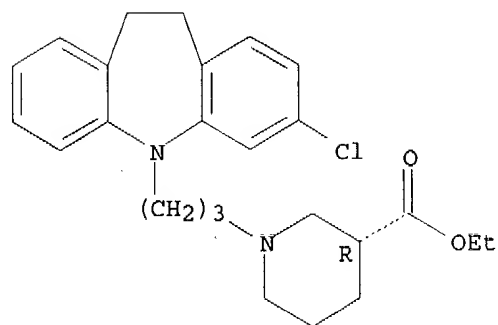
Absolute stereochemistry.



RN 170150-31-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

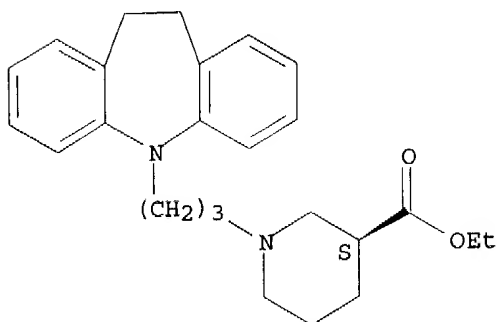
Absolute stereochemistry.



RN 170150-34-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

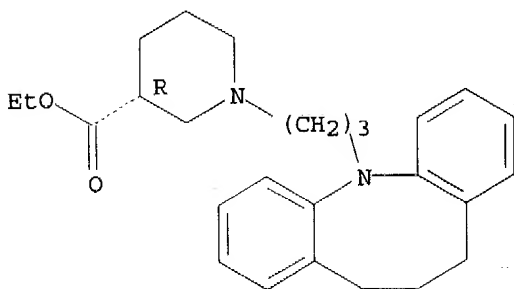
Absolute stereochemistry.



RN 170150-42-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

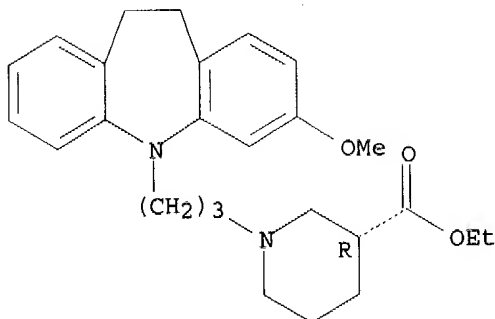
Absolute stereochemistry.



RN 170150-47-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 170149-82-3P 170149-83-4P 170149-84-5P
170149-85-6P 170149-90-3P 170149-94-7P
170149-96-9P

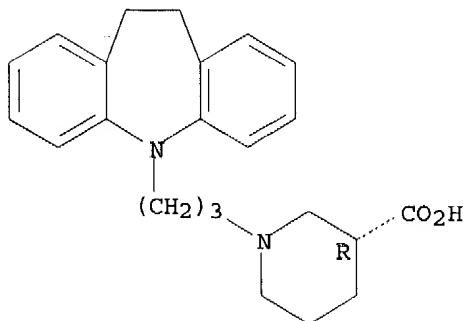
(prepn. of piperidinecarboxylic acid derivs. for reducing blood glucose

levels)

RN 170149-82-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

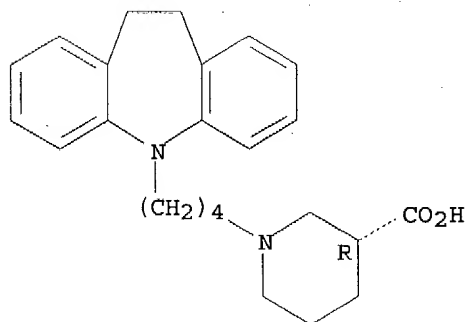


● HCl

RN 170149-83-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

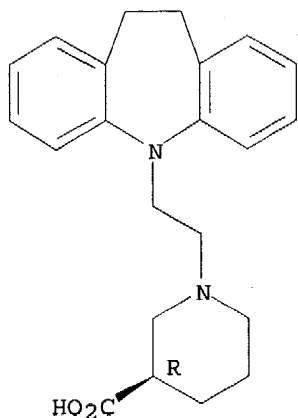


● HCl

RN 170149-84-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

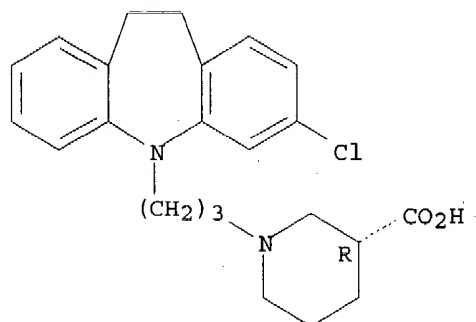


● HCl

RN 170149-85-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

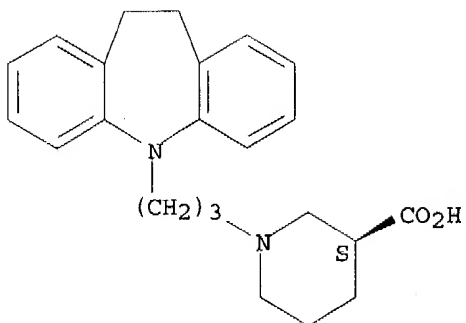


● HCl

RN 170149-90-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

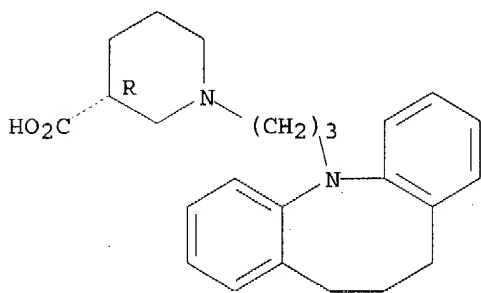


● HCl

RN 170149-94-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

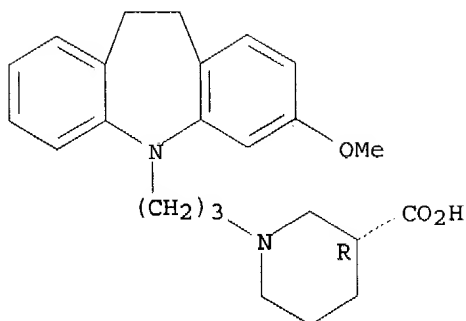


● HCl

RN 170149-96-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

L13 ANSWER 21 OF 27 USPATFULL on STN

ACCESSION NUMBER: 1998:19721 USPATFULL

TITLE: N-substituted azaheterocyclic carboxylic acids and esters thereof

INVENTOR(S): Andersen, Knud Erik, Sm.o slashed.rum, Denmark
 Olsen, Uffe Bang, Vallensb.ae butted.k, Denmark
 Petersen, Hans, Vanl.o slashed.se, Denmark
 Gr.o slashed.nvald, Frederik Christian, Vedb.ae butted.k, Denmark
 Sonnewald, Ursula, Trondheim, Norway
 J.o slashed.rgensen, Tine Krogh, Herlev, Denmark
 Andersen, Henrik Sune, K.o slashed.benhaven .O slashed., Denmark

PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5721254		19980224
APPLICATION INFO.:	US 1995-544500		19951018 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-367648, filed on 3 Jan 1995, now patented, Pat. No. US 5595989		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1994-19	19940104
	DK 1994-1290	19941109

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Shah, Mukund J.
 ASSISTANT EXAMINER: Wong, King Lit
 LEGAL REPRESENTATIVE: Zelson, Steve T., Lambiris, Elias J.
 NUMBER OF CLAIMS: 26
 EXEMPLARY CLAIM: 1
 LINE COUNT: 1373

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting

neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

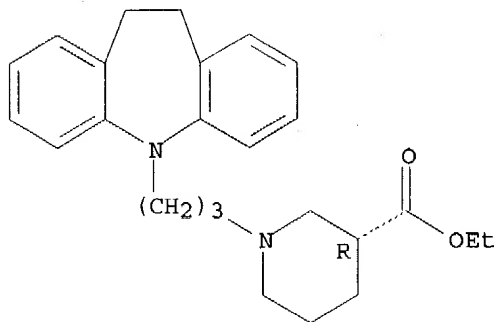
IT 170150-26-2P 170150-27-3P 170150-28-4P
170150-31-9P 170150-34-2P 170150-42-2P
170150-47-7P

(intermediate; prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170150-26-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

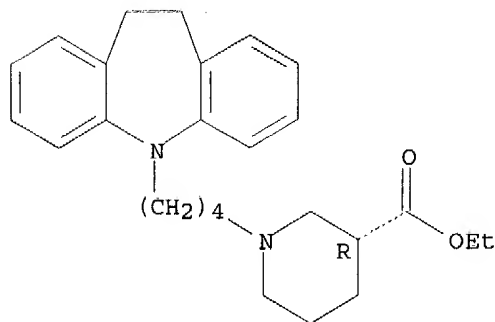
Absolute stereochemistry.



RN 170150-27-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

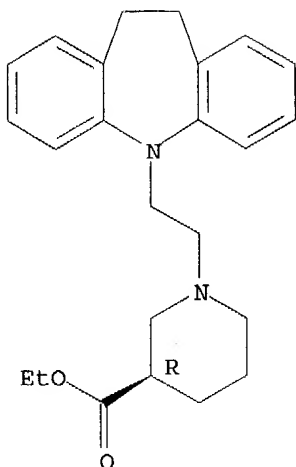
Absolute stereochemistry.



RN 170150-28-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

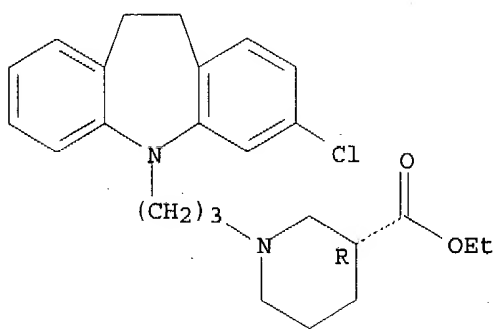
Absolute stereochemistry.



RN 170150-31-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

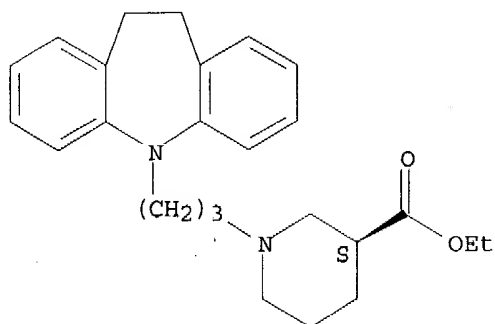
Absolute stereochemistry.



RN 170150-34-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

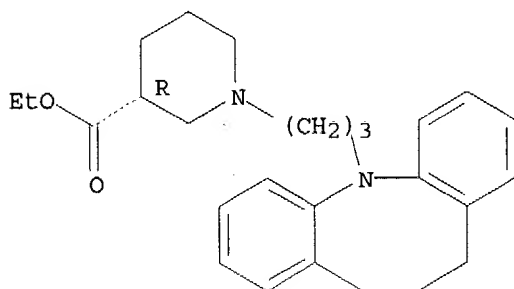
Absolute stereochemistry.



RN 170150-42-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

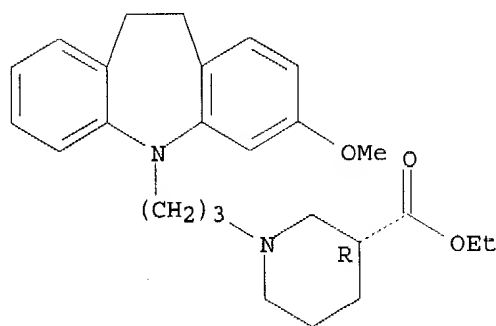
Absolute stereochemistry.



RN 170150-47-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



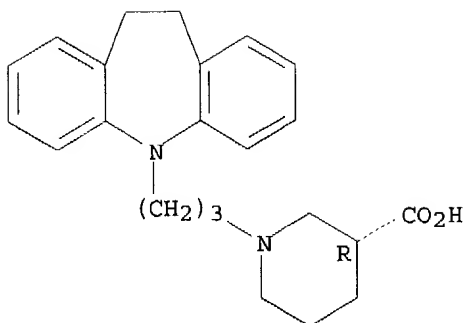
IT 170149-82-3P 170149-83-4P 170149-84-5P
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 170149-96-9P 170150-05-7P 170150-06-8P
 170150-07-9P 170150-08-0P 170150-11-5P
 170150-18-2P 170150-20-6P

(prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170149-82-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

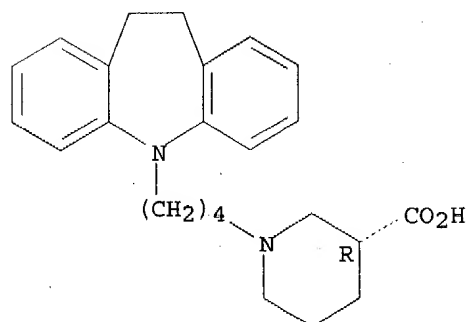
Absolute stereochemistry.



● HCl

RN 170149-83-4 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

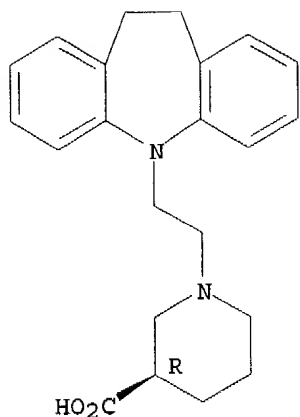
Absolute stereochemistry.



● HCl

RN 170149-84-5 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

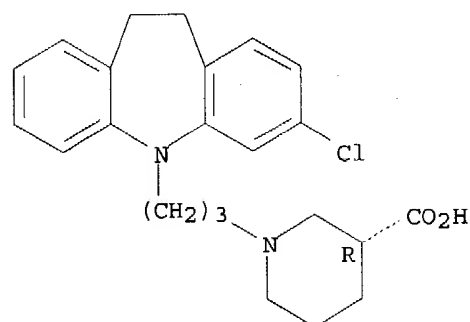
Absolute stereochemistry.



● HCl

RN 170149-85-6 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

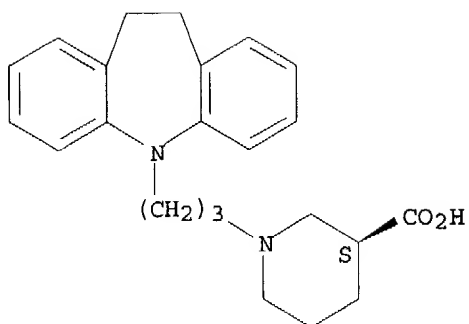
Absolute stereochemistry.



● HCl

RN 170149-90-3 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

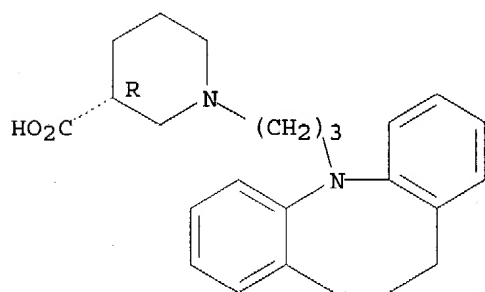


● HCl

RN 170149-94-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

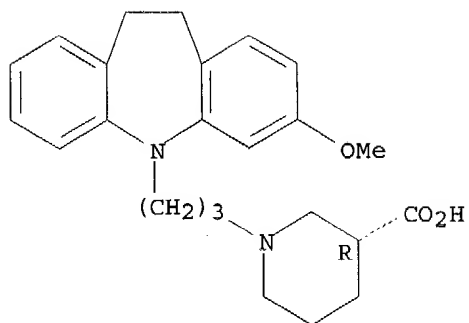


● HCl

RN 170149-96-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

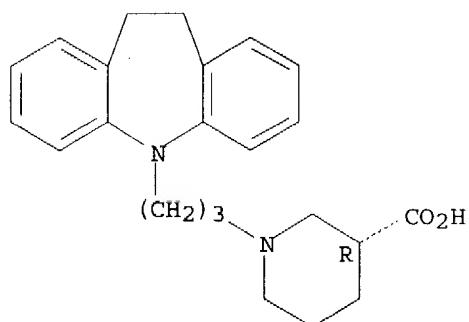


● HCl

RN 170150-05-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

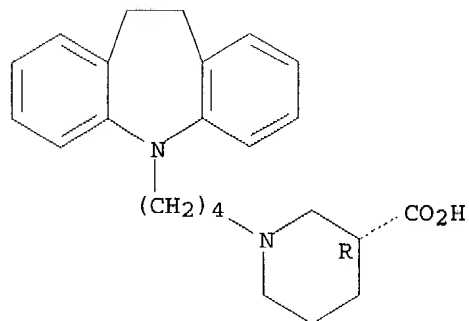
Absolute stereochemistry.



RN 170150-06-8 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, (3R)- (9CI) (CA INDEX NAME)

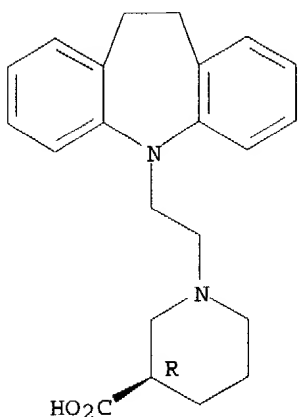
Absolute stereochemistry.



RN 170150-07-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

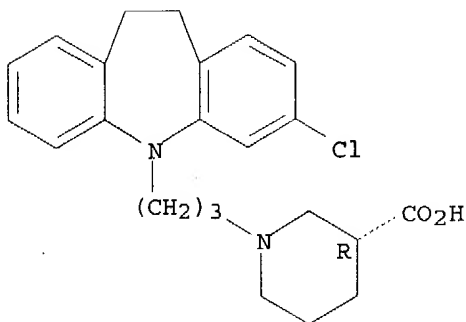
Absolute stereochemistry.



RN 170150-08-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

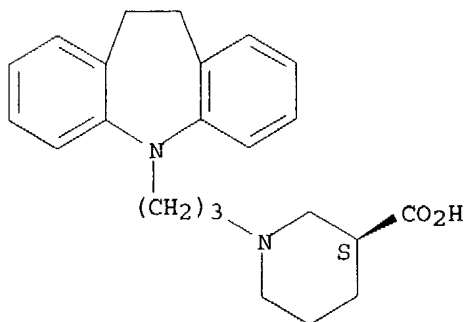
Absolute stereochemistry.



RN 170150-11-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

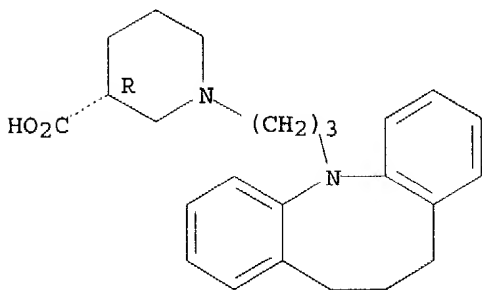


RN 170150-18-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-

yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

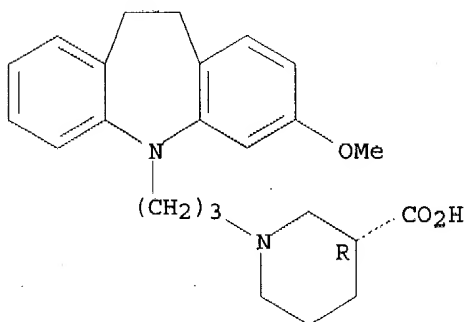
Absolute stereochemistry.



RN 170150-20-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 22 OF 27 USPATFULL on STN

ACCESSION NUMBER: 1998:9518 USPATFULL

TITLE: N-substituted azaheterocyclic carboxylic acids and esters thereof

INVENTOR(S): Andersen, Knud Erik, Sm.o slashed.rum, Denmark
Olsen, Uffe Bang, Vallensb.ae butted.k, Denmark
Petersen, Hans, Vanl.o slashed.se, Denmark
Gr.o slashed.nvald, Frederik Christian, Vedb.ae butted.k, Denmark
Sonnwald, Ursula, Trondheim, Norway
J.o slashed.rgensen, Tine Krogh, Herlev, Denmark
Andersen, Henrik Sune, K.o slashed.benhaven .O slashed., Denmark

PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5712292		19980127
APPLICATION INFO.:	US 1995-544905		19951018 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-367648, filed on 3 Jan 1995, now patented, Pat. No. US 5595989		

NUMBER	DATE

PRIORITY INFORMATION: DK 1994-19 19940104
DK 1994-1290 19941109
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Shah, Mukund J.
ASSISTANT EXAMINER: Wong, King Lit
LEGAL REPRESENTATIVE: Zelson, ESQ, Steve T., Lambiris, ESQ, Elias J.
NUMBER OF CLAIMS: 42
EXEMPLARY CLAIM: 1
LINE COUNT: 1443

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

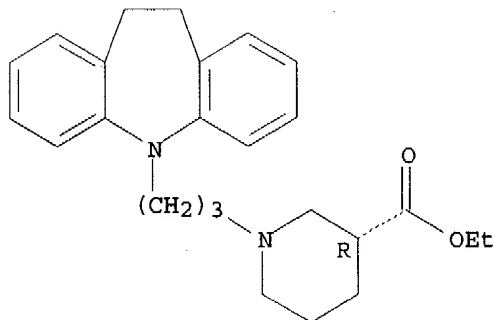
IT 170150-26-2P 170150-27-3P 170150-28-4P
170150-31-9P 170150-34-2P 170150-42-2P
170150-47-7P

(intermediate; prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170150-26-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

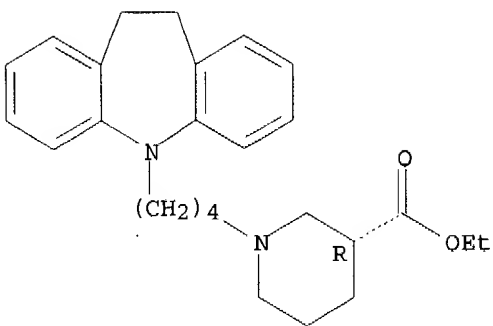
Absolute stereochemistry.



RN 170150-27-3 USPATFULL

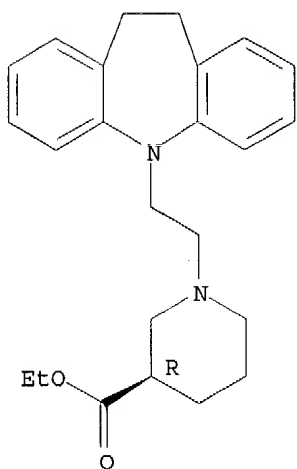
CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



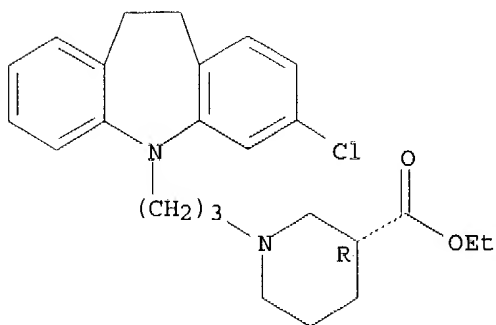
RN 170150-28-4 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 170150-31-9 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

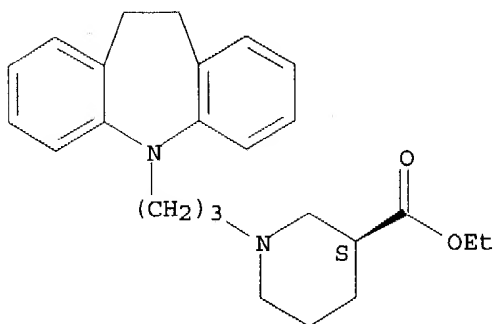
Absolute stereochemistry.



RN 170150-34-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

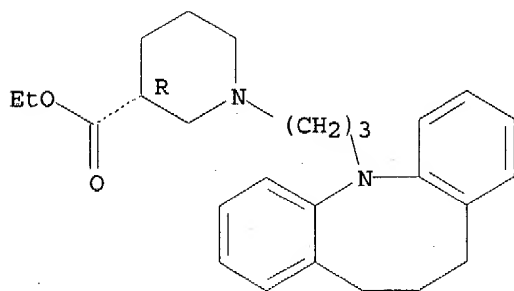
Absolute stereochemistry.



RN 170150-42-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

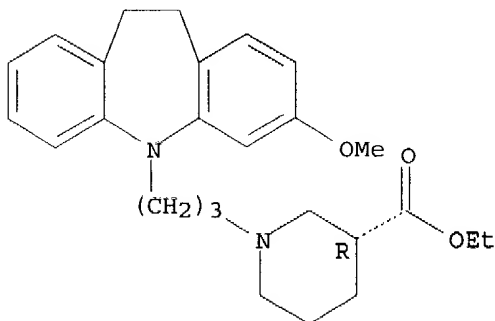
Absolute stereochemistry.



RN 170150-47-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 170149-82-3P 170149-83-4P 170149-84-5P
 170149-85-6P 170149-90-3P 170149-94-7P
 170149-96-9P 170150-05-7P 170150-06-8P
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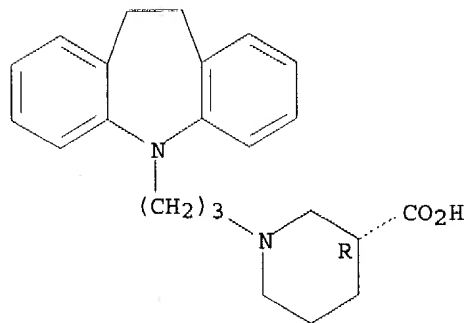
170150-18-2P 170150-20-6P

(prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170149-82-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

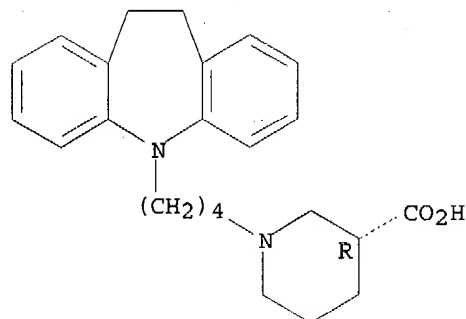


● HCl

RN 170149-83-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

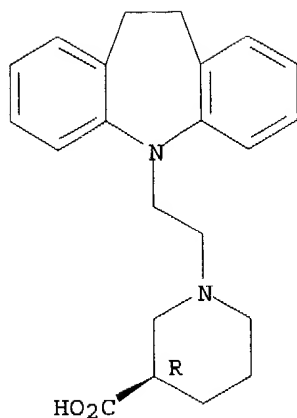


● HCl

RN 170149-84-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

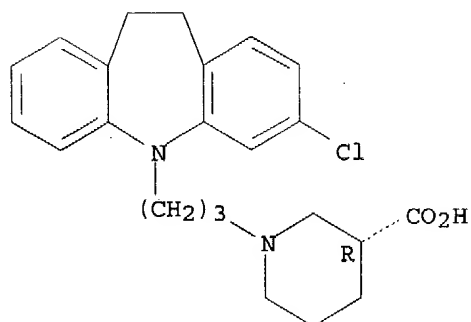


● HCl

RN 170149-85-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

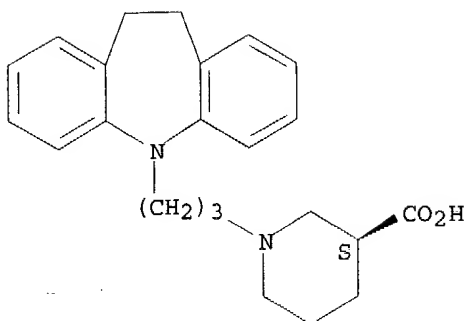


● HCl

RN 170149-90-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

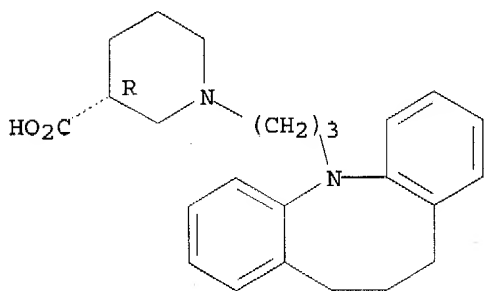
Absolute stereochemistry.



● HCl

RN 170149-94-7 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

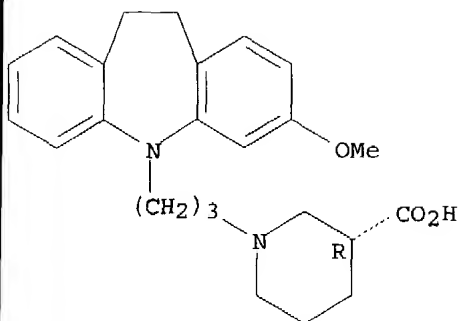
Absolute stereochemistry.



● HCl

RN 170149-96-9 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

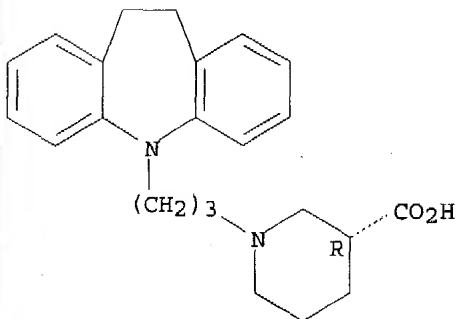


● HCl

RN 170150-05-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

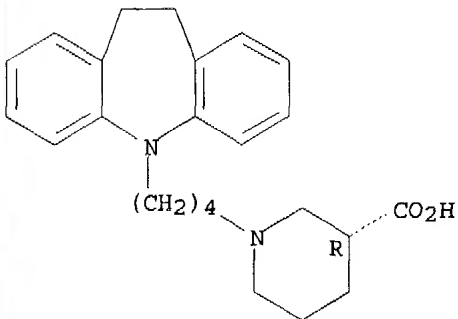
Absolute stereochemistry.



RN 170150-06-8 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, (3R)- (9CI) (CA INDEX NAME)

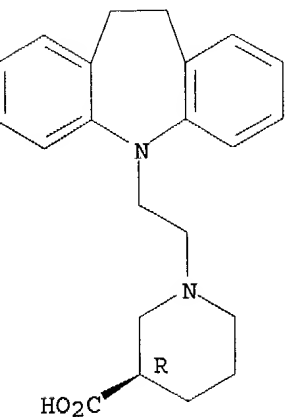
Absolute stereochemistry.



RN 170150-07-9 USPATFULL

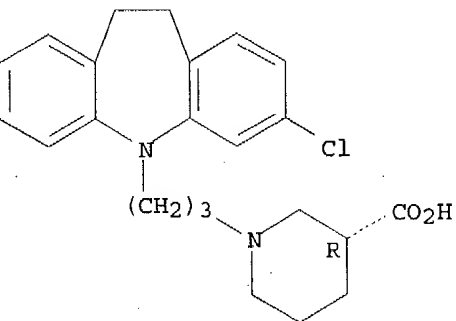
CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



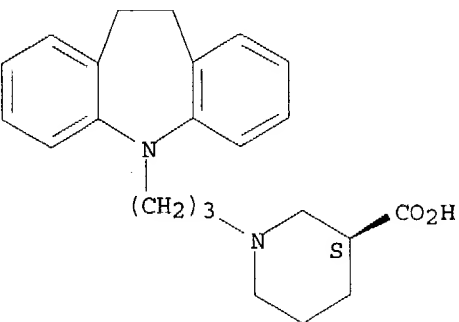
RN 170150-08-0 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 170150-11-5 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)- (9CI) (CA INDEX NAME)

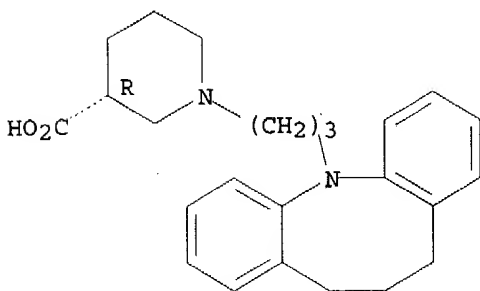
Absolute stereochemistry.



RN 170150-18-2 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-

yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

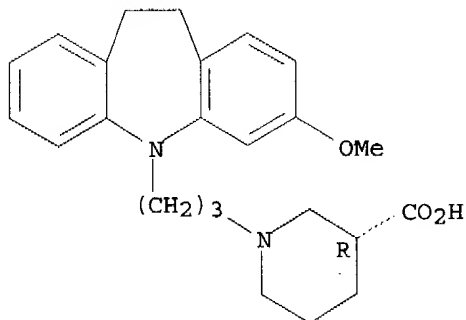
Absolute stereochemistry.



RN 170150-20-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 23 OF 27 USPATFULL on STN

ACCESSION NUMBER: 97:118042 USPATFULL

TITLE: Heterocyclic compounds

INVENTOR(S): J.o slashed.rgensen, Tine Krogh, Herlev, Denmark
Andersen, Knud Erik, Sm.o slashed.rum, Denmark
Andersen, Henrik Sune, K.o slashed.benhavn, Denmark
Hohlweg, Rolf, Kvistgaard, Denmark
Madsen, Peter, Bagsv.ae butted.rd, Denmark
Olsen, Uffe Bang, Vallensb.ae butted.k, Denmark

PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5698551		19971216
APPLICATION INFO.:	US 1996-623807		19960329 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1995-403	19950407
	DK 1995-1006	19950911

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Shah, Mukund J.
ASSISTANT EXAMINER: Rao, Deepak

LEGAL REPRESENTATIVE: Zelson, Esq., Steven T., Zambiris, Esq., Elias J.
 NUMBER OF CLAIMS: 31
 EXEMPLARY CLAIM: 1
 LINE COUNT: 1115

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

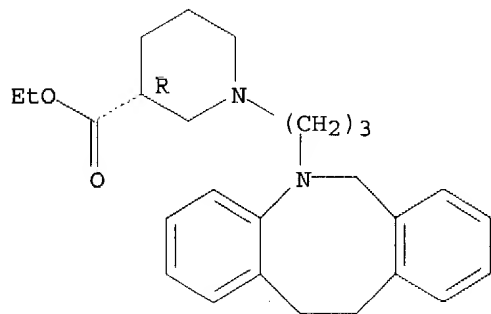
IT 183615-01-2P

(intermediate; prepn. of tricyclic azaheterocyclic carboxylic acids as analgesics and antiinflammatories)

RN 183615-01-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



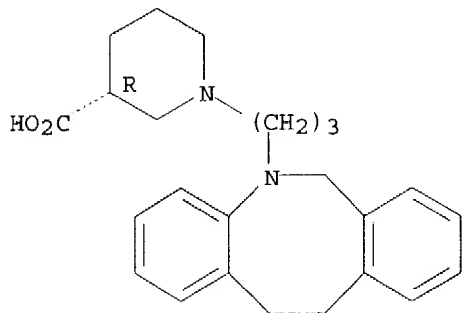
IT 183614-64-4P 183614-78-0P 183614-86-0P

(prepn. of tricyclic azaheterocyclic carboxylic acids as analgesics and antiinflammatories)

RN 183614-64-4 USPATFULL

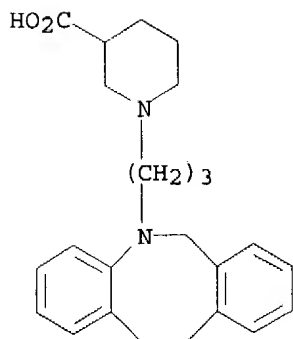
CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, dihydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



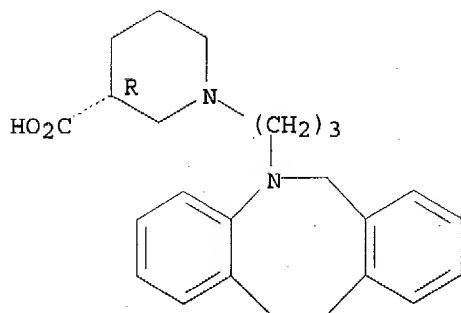
● 2 HCl

RN 183614-78-0 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]- (9CI) (CA INDEX NAME)



RN 183614-86-0 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(11,12-dihydrodibenz[b,f]azocin-5(6H)-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 24 OF 27 USPATFULL on STN
 ACCESSION NUMBER: 97:112479 USPATFULL
 TITLE: N-substituted azaheterocyclic carboxylic acids and esters thereof
 INVENTOR(S): Andersen, Knud Erik, Sm.o slashed.rum, Denmark
 Olsen, Uffe Bang, Vallensb.ae butted.k, Denmark
 Petersen, Hans, Vanl.o slashed.se, Denmark
 Gr.o slashed.nvald, Frederik Christian, Vedb.ae butted.k, Denmark
 Sonnewald, Ursula, Trondheim, Norway
 J.o slashed.rgensen, Tine Krogh, Herlev, Denmark
 Andersen, Henrik Sune, K.o slashed.benhaven, Denmark
 PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5693649		19971202
APPLICATION INFO.:	US 1995-544502		19951018 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-367648, filed on 3 Jan 1995, now patented, Pat. No. US 5595989		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1994-19	19940104
	DK 1994-1290	19941109
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Shah, Mukund J.	
ASSISTANT EXAMINER:	Wong, King Lit	
LEGAL REPRESENTATIVE:	Zelson, Esq., Steve T., Lambiris, Esq., Elias J.	
NUMBER OF CLAIMS:	12	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1318	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

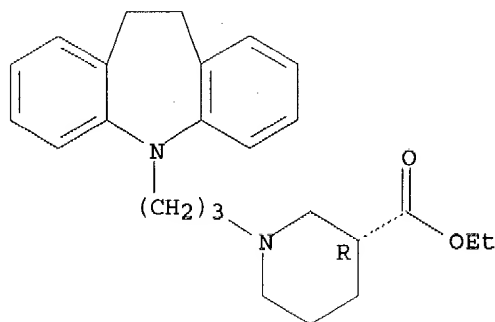
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 170150-31-9P 170150-34-2P 170150-42-2P
 170150-47-7P

(intermediate; prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170150-26-2 USPTAFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

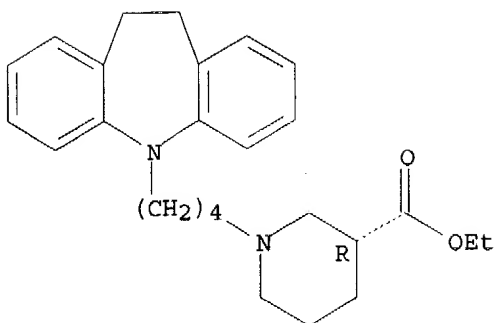
Absolute stereochemistry.



RN 170150-27-3 USPTAFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

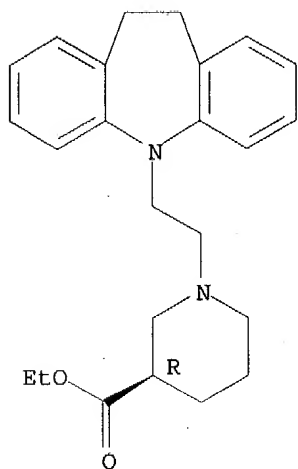
Absolute stereochemistry.



RN 170150-28-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

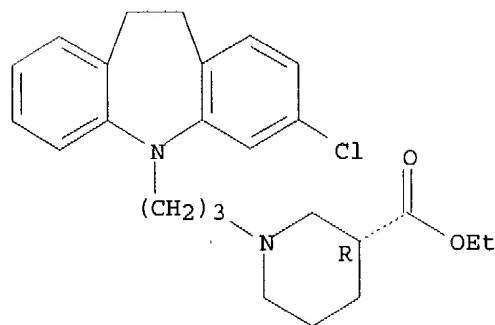
Absolute stereochemistry.



RN 170150-31-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

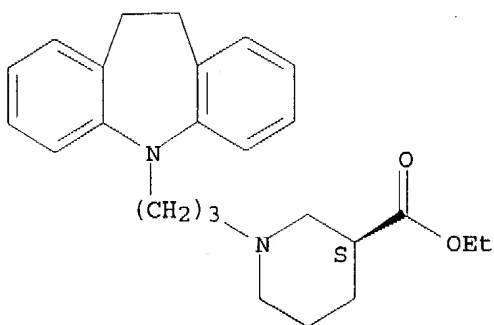
Absolute stereochemistry.



RN 170150-34-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S) - (9CI) (CA INDEX NAME)

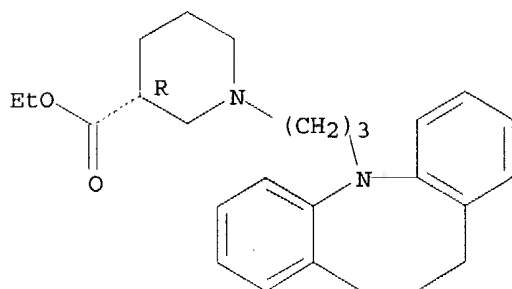
Absolute stereochemistry.



RN 170150-42-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (R) - (9CI) (CA INDEX NAME)

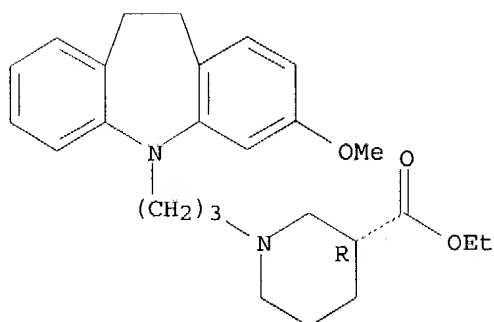
Absolute stereochemistry.



RN 170150-47-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 170149-82-3P 170149-83-4P 170149-84-5P
 170149-85-6P 170149-90-3P 170149-94-7P
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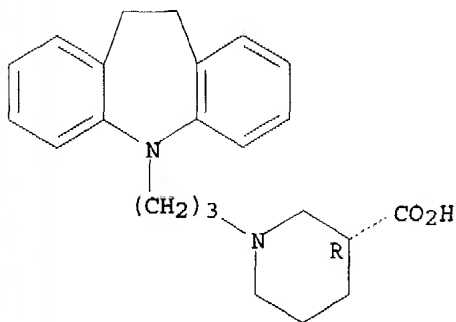
170150-18-2P 170150-20-6P

(prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170149-82-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

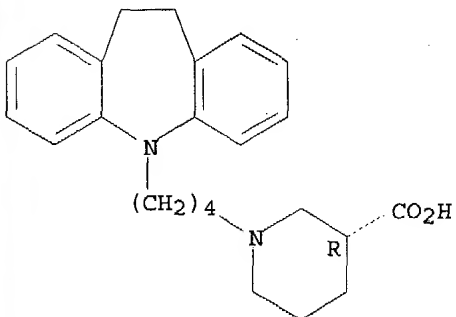


● HCl

RN 170149-83-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

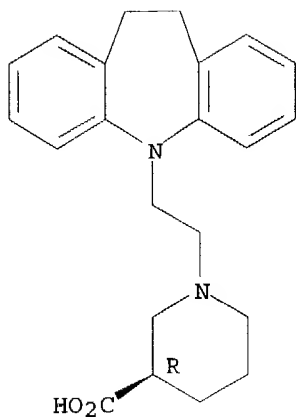


● HCl

RN 170149-84-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

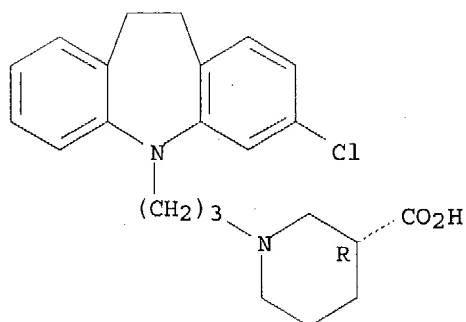


● HCl

RN 170149-85-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

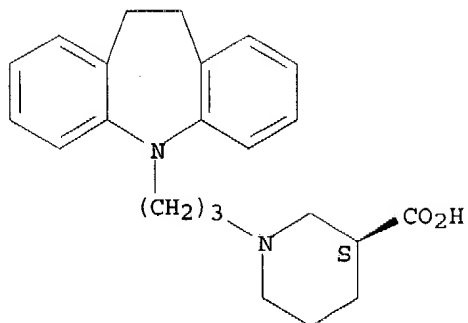


● HCl

RN 170149-90-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

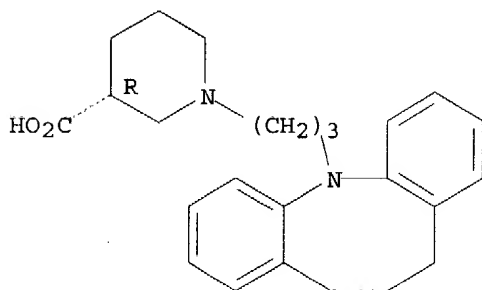


● HCl

RN 170149-94-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

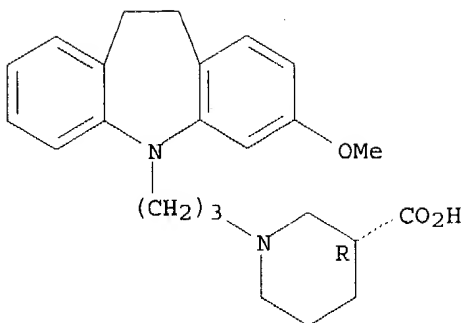


● HCl

RN 170149-96-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

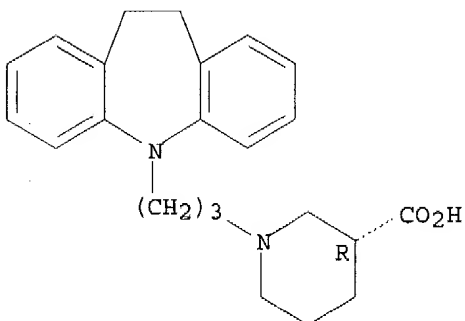
Absolute stereochemistry.



● HCl

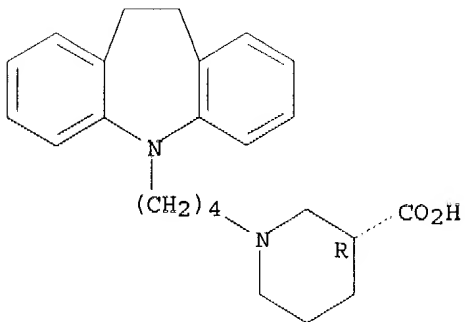
RN 170150-05-7 USPATFULL
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Absolute stereochemistry.



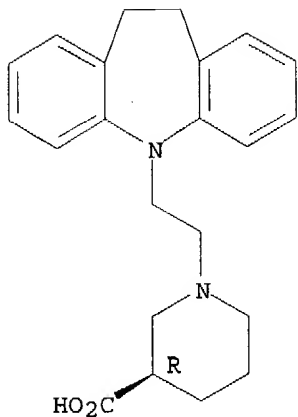
RN 170150-06-8 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 170150-07-9 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

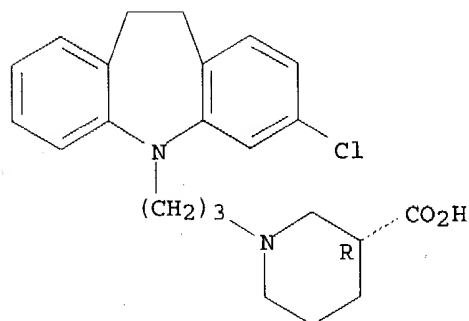
Absolute stereochemistry.



RN 170150-08-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

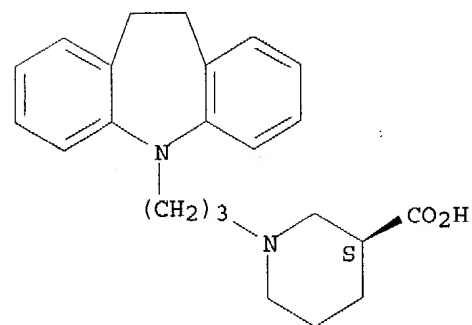
Absolute stereochemistry.



RN 170150-11-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

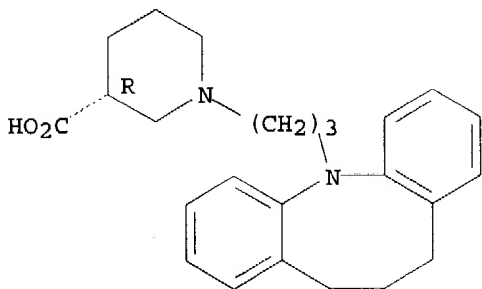


RN 170150-18-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H))-]

yl)propyl]-, (3R) - (9CI) (CA INDEX NAME)

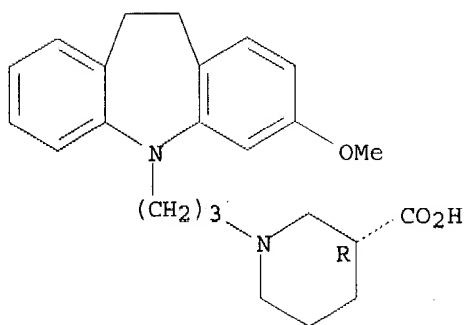
Absolute stereochemistry.



RN 170150-20-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 25 OF 27 USPATFULL on STN

ACCESSION NUMBER: 97:107074 USPATFULL

TITLE: N-substituted azaheterocyclic carboxylic acids and esters thereof

INVENTOR(S): Andersen, Knud Erik, Sm.o slashed.rum, Denmark
Olsen, Uffe Bang, Vallensb.ae butted.k, Denmark
Petersen, Hans, Vanl.o slashed.se, Denmark
Gr.o slashed.nvald, Frederik Christian, Vedb.ae butted.k, Denmark
Sonnewald, Ursula, Trondheim, Germany, Federal Republic of
J.o slashed.rgensen, Tine Krogh, Herlev, Denmark
Andersen, Henrik Sune, K.phi.benhaven .phi., Denmark
PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5688788		19971118
APPLICATION INFO.:	US 1995-444140		19950518 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-367648, filed on 3 Jan 1995, now patented, Pat. No. US 5595989		

NUMBER	DATE

PRIORITY INFORMATION: DK 1994-19 19940104
DK 1994-1290 19941109
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Shah, Mukund J.
ASSISTANT EXAMINER: Wong, King Lit
LEGAL REPRESENTATIVE: Zelson, Esq., Steve T., Lambiris, Esq., Elias J.
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
LINE COUNT: 1345

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

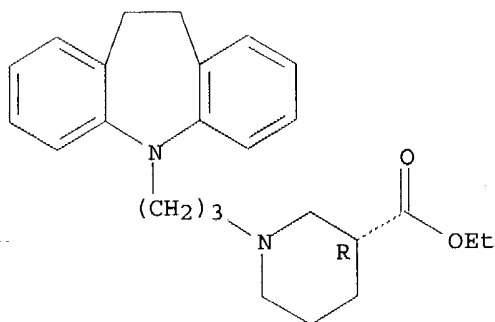
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170150-47-7P

(intermediate; prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170150-26-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

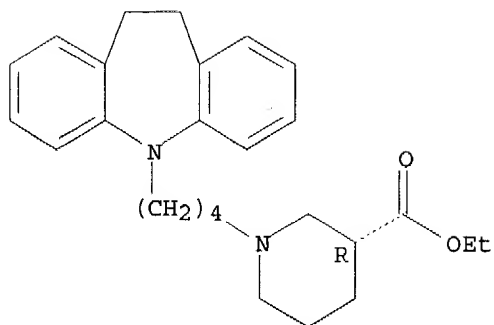
Absolute stereochemistry.



RN 170150-27-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

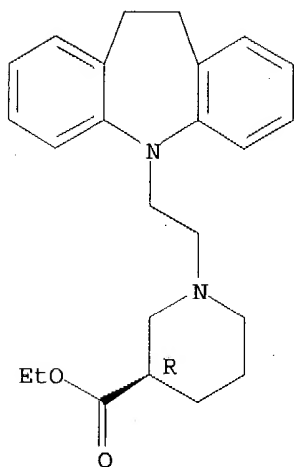
Absolute stereochemistry.



RN 170150-28-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

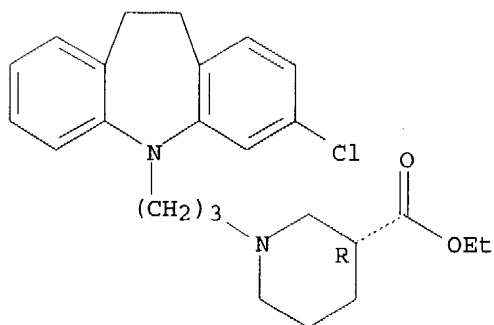
Absolute stereochemistry.



RN 170150-31-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

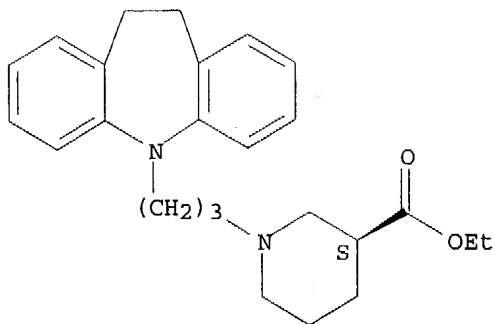
Absolute stereochemistry.



RN 170150-34-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

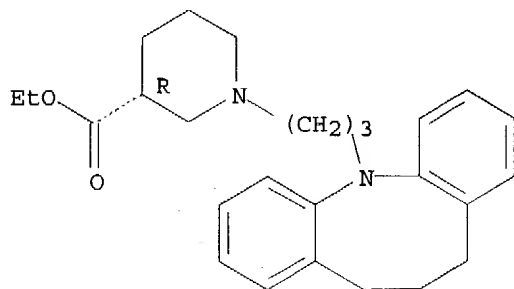
Absolute stereochemistry.



RN 170150-42-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

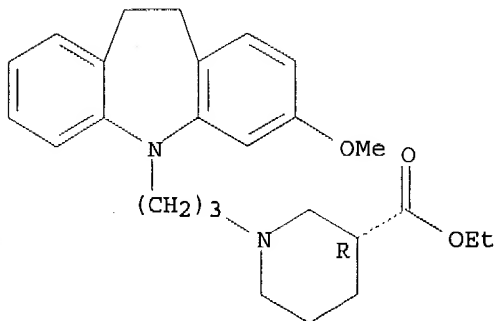
Absolute stereochemistry.



RN 170150-47-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 170149-82-3P 170149-83-4P 170149-84-5P
 170149-85-6P 170149-90-3P 170149-94-7P
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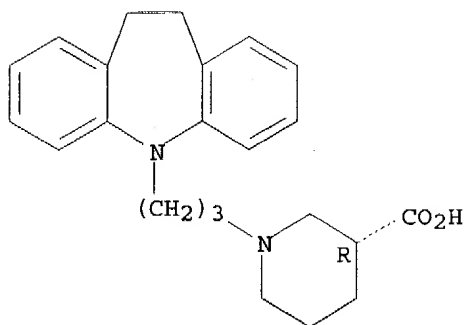
170150-18-2P 170150-20-6P

(prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170149-82-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

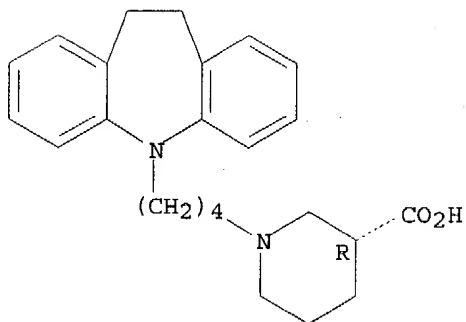


● HCl

RN 170149-83-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

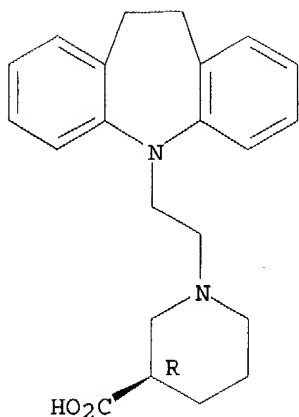


● HCl

RN 170149-84-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

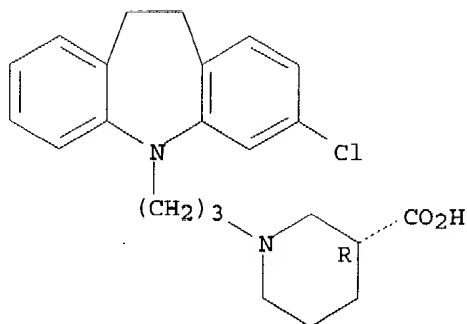


● HCl

RN 170149-85-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

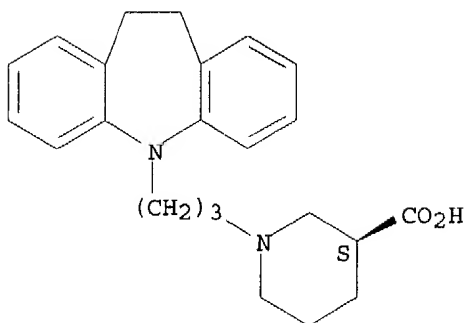


● HCl

RN 170149-90-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

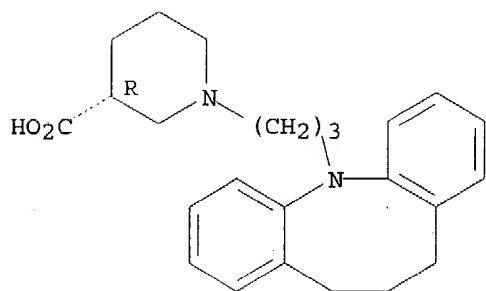
Absolute stereochemistry.



● HCl

RN 170149-94-7 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

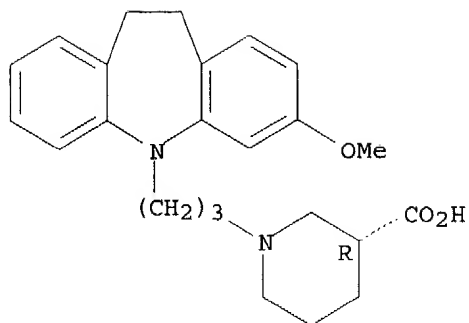
Absolute stereochemistry.



● HCl

RN 170149-96-9 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

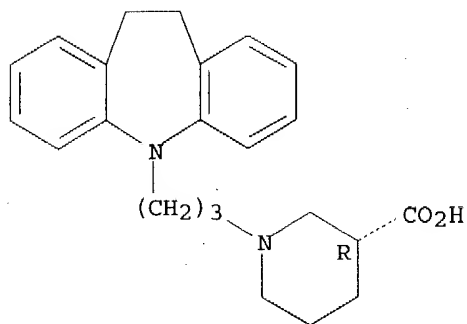
Absolute stereochemistry.



● HCl

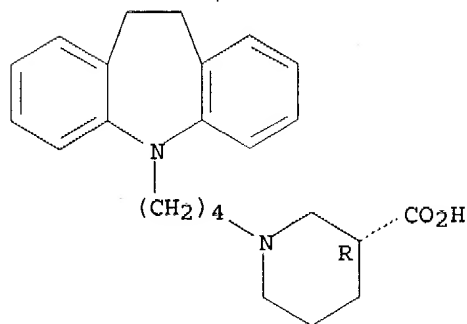
RN 170150-05-7 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



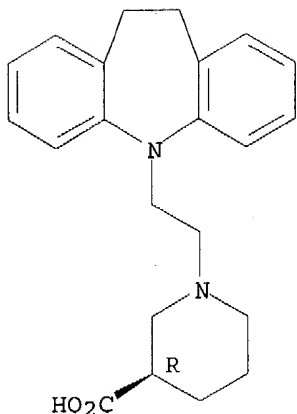
RN 170150-06-8 USPATFULL
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Absolute stereochemistry.



RN 170150-07-9 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

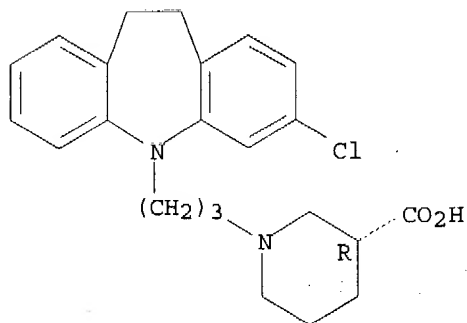
Absolute stereochemistry.



RN 170150-08-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)-(9CI) (CA INDEX NAME)

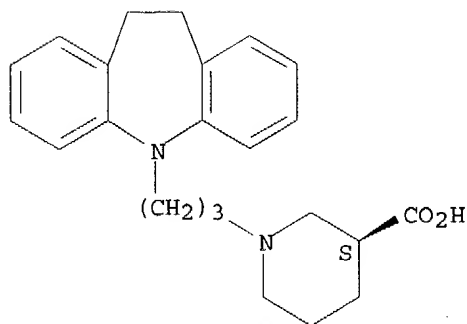
Absolute stereochemistry.



RN 170150-11-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

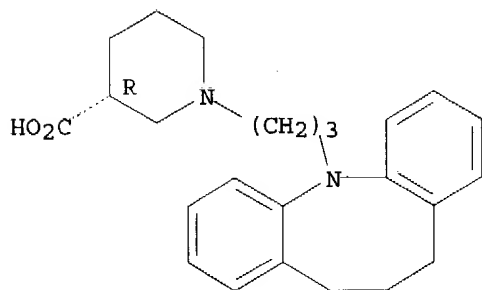


RN 170150-18-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-

yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

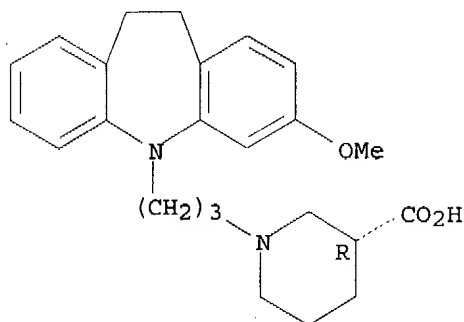
Absolute stereochemistry.



RN 170150-20-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 26 OF 27 USPATFULL on STN

ACCESSION NUMBER: 97:83956 USPATFULL

TITLE: N-substituted azaheterocyclic carboxylic acids and esters thereof

INVENTOR(S): Andersen, Knud Erik, Sm.o slashed.rum, Denmark
Olsen, Uffe Bang, Vallensb.ae butted.k, Denmark
Petersen, Hans, Vanl.o slashed.se, Denmark
Gr.o slashed.nvald, Frederik Christian, Vedb.ae butted.k, Denmark
Sonnewald, Ursula, Trondheim, Norway
J.o slashed.rgensen, Tine Krogh, Herlev, Denmark
Andersen, Henrik Sune, K.o slashed.benhaven .O slashed., Denmark

PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5668129		19970916
APPLICATION INFO.:	US 1996-626745		19960327 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-367648, filed on 3 Jan 1995		

NUMBER	DATE

PRIORITY INFORMATION: DK 1994-19 19940104
 DK 1994-1290 19941109
 DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Shah, Mukund J.
 ASSISTANT EXAMINER: Wong, King Lit
 LEGAL REPRESENTATIVE: Zelton, Esq., Steve T., Lambiris, Esq., Elias J.
 NUMBER OF CLAIMS: 15
 EXEMPLARY CLAIM: 1
 LINE COUNT: 1340

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

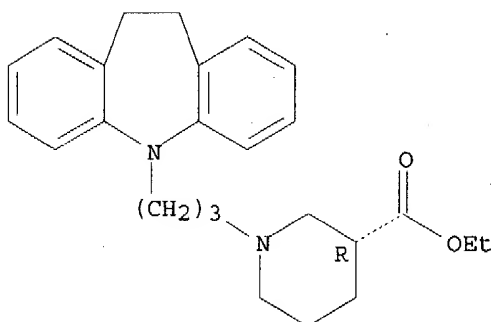
IT 170150-26-2P 170150-27-3P 170150-28-4P
 170150-31-9P 170150-34-2P 170150-42-2P
 170150-47-7P

(intermediate; prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170150-26-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

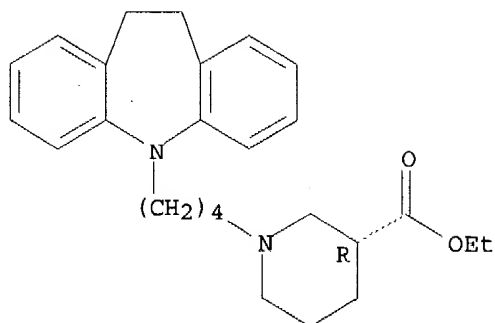
Absolute stereochemistry.



RN 170150-27-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

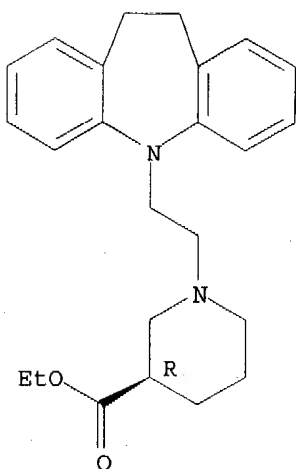
Absolute stereochemistry.



RN 170150-28-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

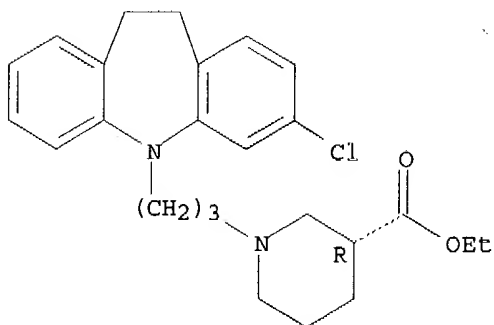
Absolute stereochemistry.



RN 170150-31-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

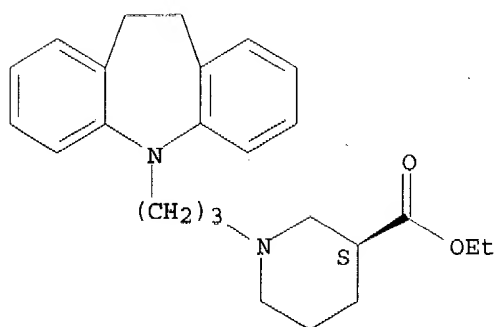
Absolute stereochemistry.



RN 170150-34-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

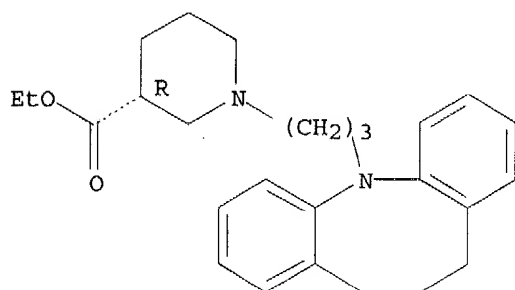
Absolute stereochemistry.



RN 170150-42-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

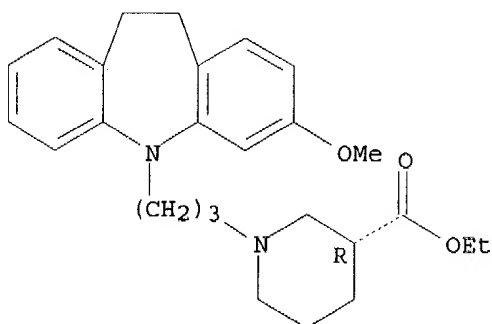
Absolute stereochemistry.



RN 170150-47-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 170149-82-3P 170149-83-4P 170149-84-5P
 170149-85-6P 170149-90-3P 170149-94-7P
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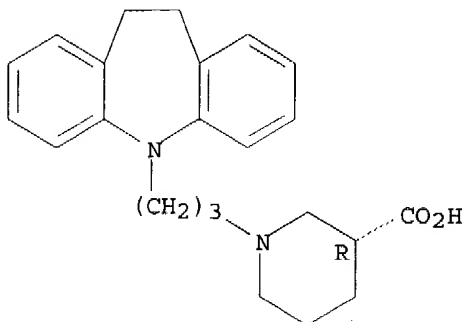
170150-18-2P 170150-20-6P

(prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170149-82-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

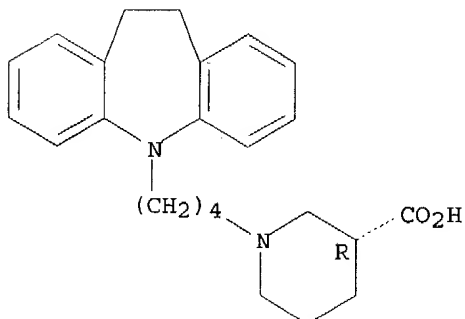


● HCl

RN 170149-83-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

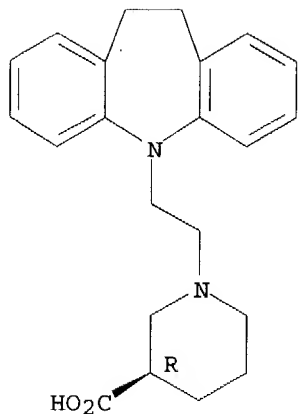


● HCl

RN 170149-84-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

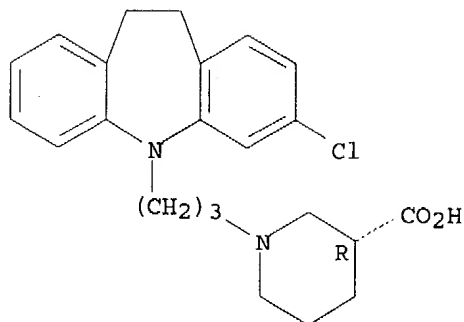


● HCl

RN 170149-85-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

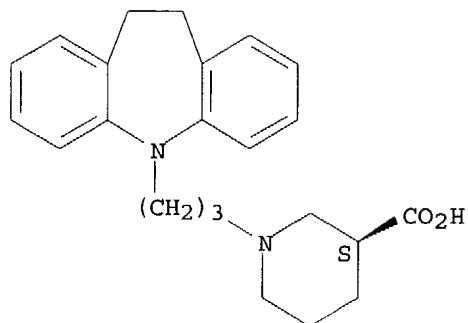


● HCl

RN 170149-90-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

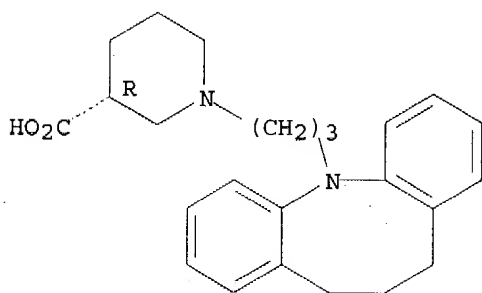
Absolute stereochemistry.



● HCl

RN 170149-94-7 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

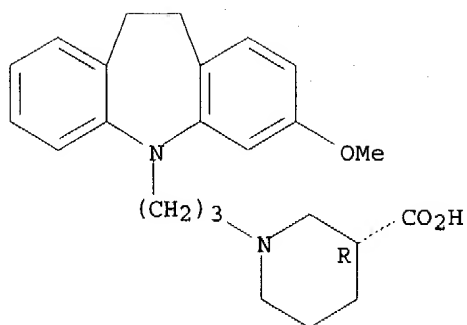
Absolute stereochemistry.



● HCl

RN 170149-96-9 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

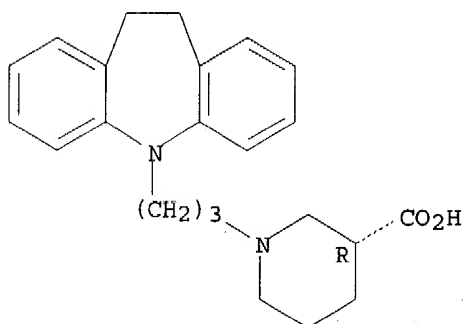


● HCl

RN 170150-05-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

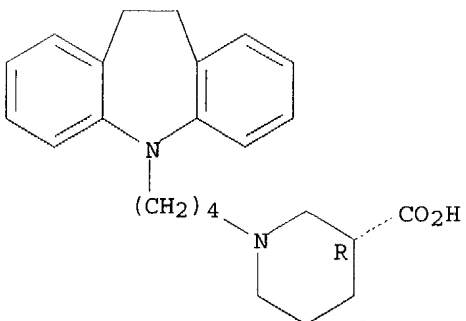
Absolute stereochemistry.



RN 170150-06-8 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, (3R)- (9CI) (CA INDEX NAME)

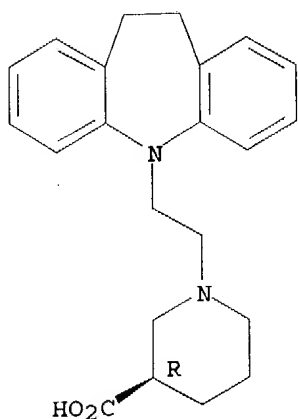
Absolute stereochemistry.



RN 170150-07-9 USPATFULL

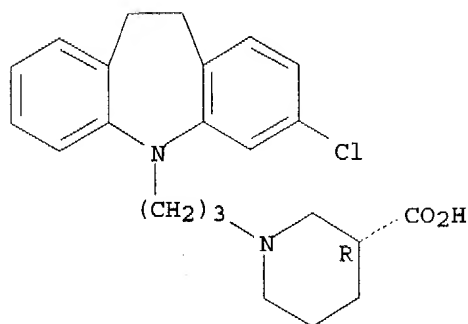
CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



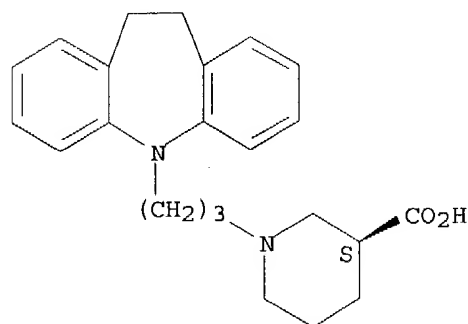
RN 170150-08-0 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 170150-11-5 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)- (9CI) (CA INDEX NAME)

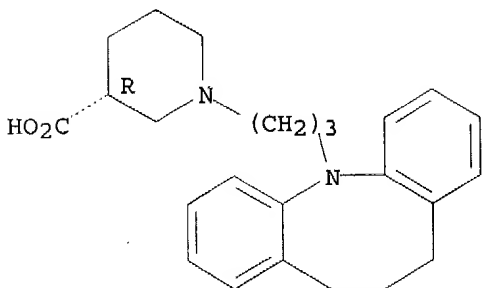
Absolute stereochemistry.



RN 170150-18-2 USPATFULL
 CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-

yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

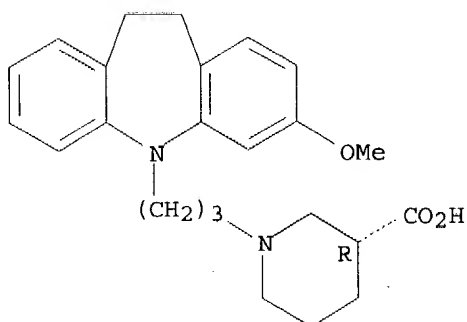
Absolute stereochemistry.



RN 170150-20-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 27 OF 27 USPATFULL on STN

ACCESSION NUMBER: 97:5968 USPATFULL

TITLE: N-substituted azaheterocyclic carboxylic acids and esters thereof

INVENTOR(S): Andersen, Knud E., Sm.o slashed.rum, Denmark
Olsen, Uffe B., Vallensb.ae butted.k, Denmark
Petersen, Hans, Vanl.o slashed.se, Denmark
Gr.o slashed.nvald, Frederik, Vedb.ae butted.k, Denmark
Sonnewald, Ursula, Trondheim, Norway
J.o slashed.rgensen, Tine K., Herlev, Denmark
Andersen, Henrik S., K.o slashed.benhaven .O slashed., Denmark

PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5595989		19970121
APPLICATION INFO.:	US 1995-367648		19950103 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1994-19	19940104
	DK 1994-1290	19941109
DOCUMENT TYPE:	Utility	

FILE SEGMENT: Granted
PRIMARY EXAMINER: Shah, Mukund J.
ASSISTANT EXAMINER: Wong, King Lit
LEGAL REPRESENTATIVE: Zelson, Steve T., Lambiris, Elias J.
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
LINE COUNT: 1349

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel N-substituted azaheterocyclic carboxylic acids and esters thereof in which a substituted alkyl chain forms part of the N-substituent or salts thereof, to methods for their preparation, to compositions containing them, and to their use for the clinical treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiological role by eliciting neurogenic pain or inflammation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

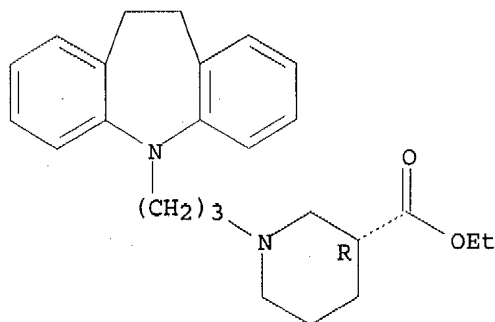
IT 170150-26-2P 170150-27-3P 170150-28-4P
170150-31-9P 170150-34-2P 170150-42-2P
170150-47-7P

(intermediate; prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170150-26-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

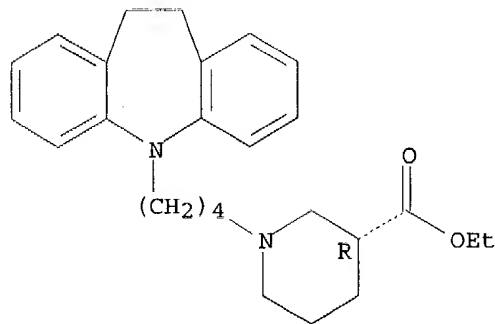
Absolute stereochemistry.



RN 170150-27-3 USPATFULL

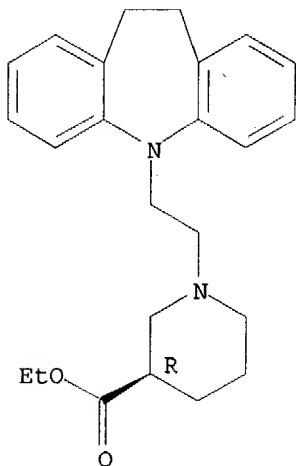
CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



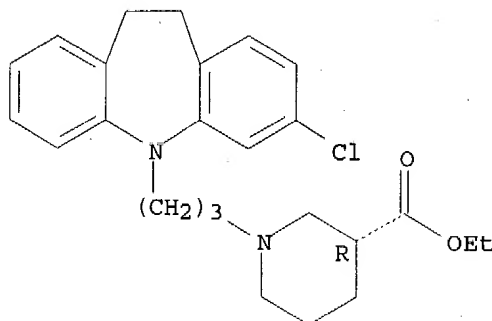
RN 170150-28-4 USPATFULL
CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



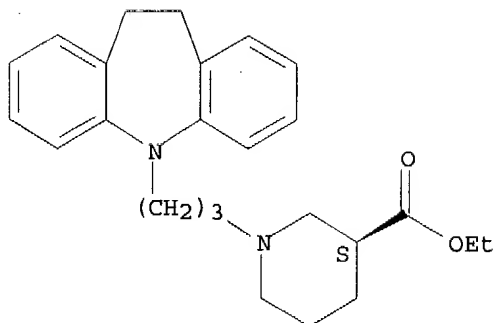
RN 170150-31-9 USPATFULL
CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 170150-34-2 USPATFULL
CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (S)- (9CI) (CA INDEX NAME)

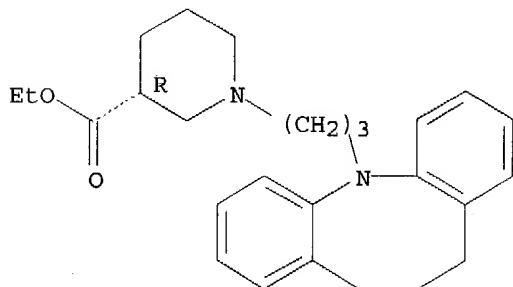
Absolute stereochemistry.



RN 170150-42-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

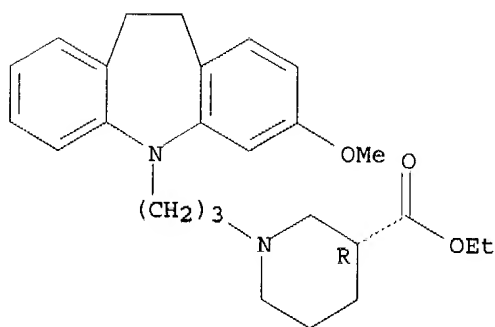
Absolute stereochemistry.



RN 170150-47-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 170149-82-3P 170149-83-4P 170149-84-5P
 170149-85-6P 170149-90-3P 170149-94-7P
 170149-96-9P 170150-05-7P 170150-06-8P
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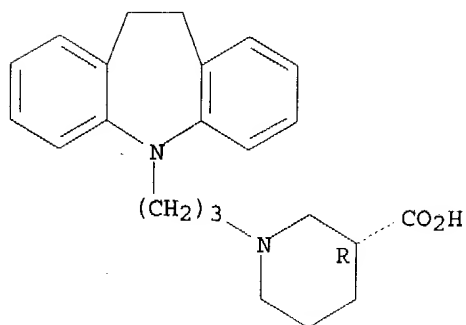
(prepn. of azaheterocyclic acids as analgesics and antiinflammatories)

RN 170149-82-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-

yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

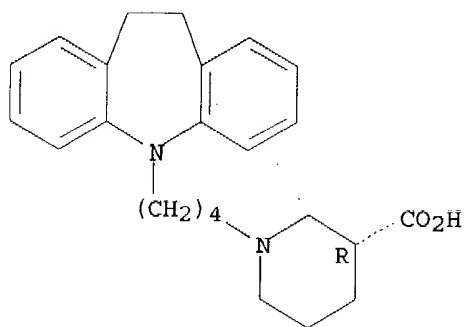


● HCl

RN 170149-83-4 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

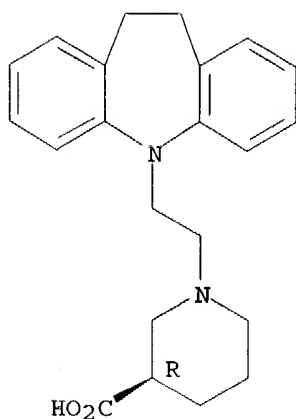


● HCl

RN 170149-84-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

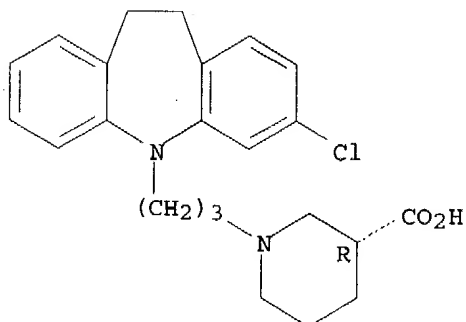


● HCl

RN 170149-85-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

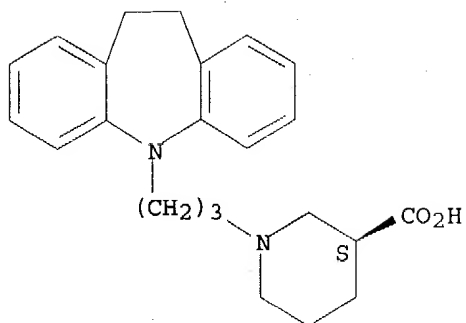


● HCl

RN 170149-90-3 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

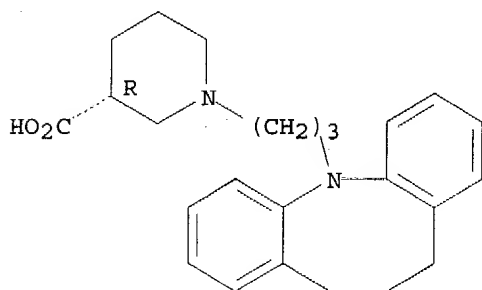


● HCl

RN 170149-94-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H)-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

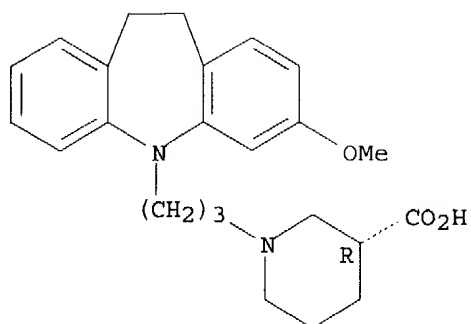


● HCl

RN 170149-96-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

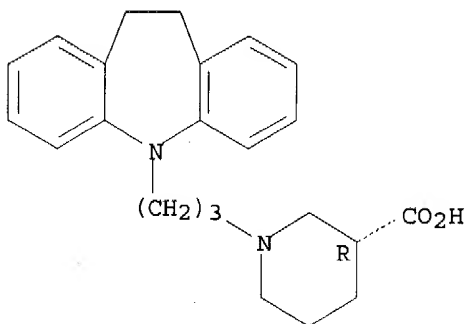


● HCl

RN 170150-05-7 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

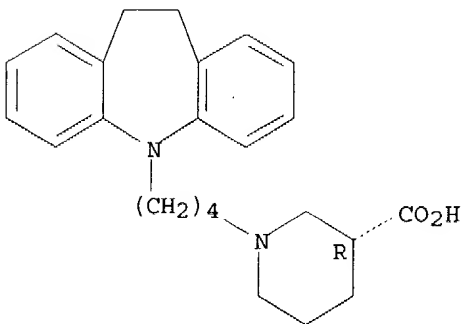
Absolute stereochemistry.



RN 170150-06-8 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[4-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)butyl]-, (3R)- (9CI) (CA INDEX NAME)

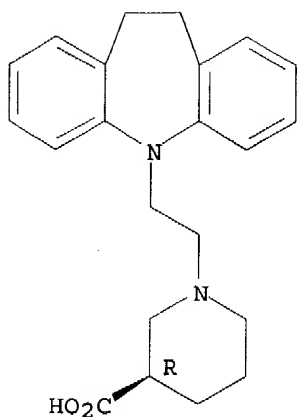
Absolute stereochemistry.



RN 170150-07-9 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[2-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)ethyl]-, (3R)- (9CI) (CA INDEX NAME)

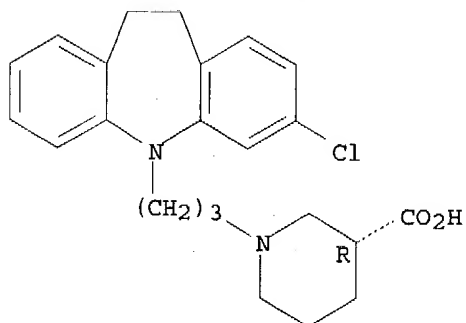
Absolute stereochemistry.



RN 170150-08-0 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(3-chloro-10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)-(9CI) (CA INDEX NAME)

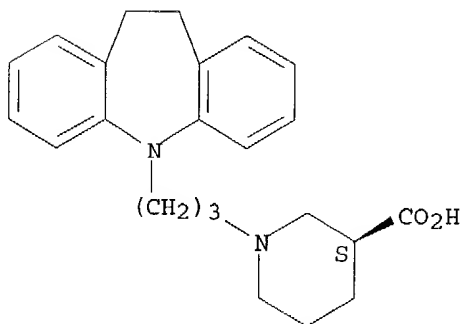
Absolute stereochemistry.



RN 170150-11-5 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

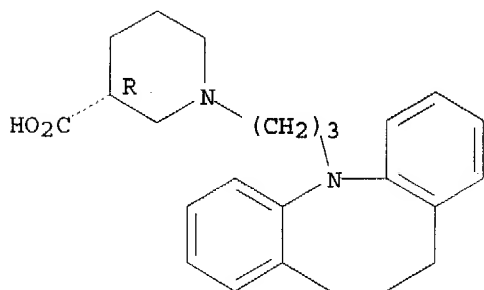


RN 170150-18-2 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(6,7-dihydrodibenz[b,g]azocin-12(5H))-yl)propyl]-, (3S)-(9CI) (CA INDEX NAME)

yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

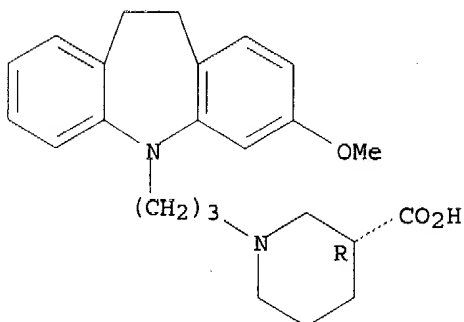
Absolute stereochemistry.



RN 170150-20-6 USPATFULL

CN 3-Piperidinecarboxylic acid, 1-[3-(10,11-dihydro-3-methoxy-5H-dibenz[b,f]azepin-5-yl)propyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



FILE 'HOME' ENTERED AT 10:26:01 ON 09 SEP 2004